

FIG. 1A PRIOR ART

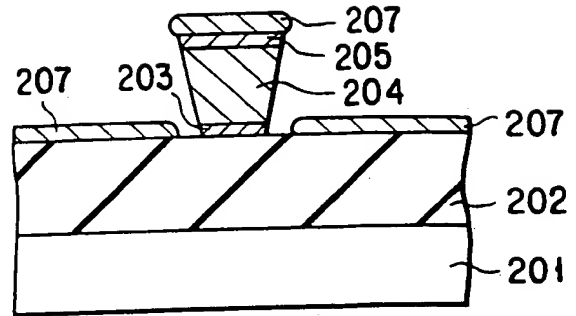


FIG. 2A PRIOR ART

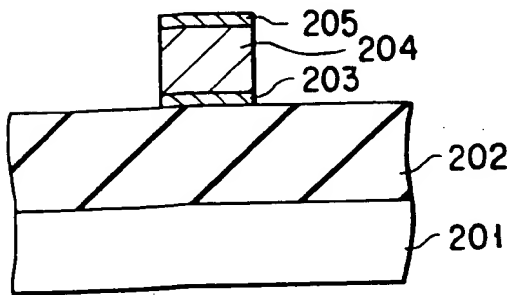


FIG. 1B PRIOR ART

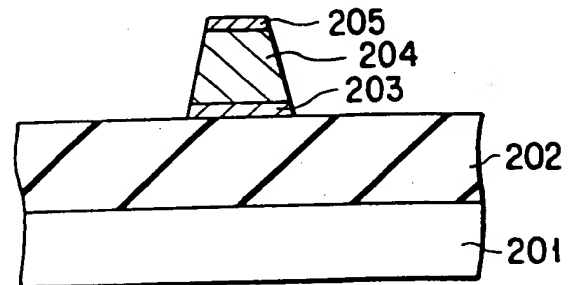


FIG. 2B PRIOR ART

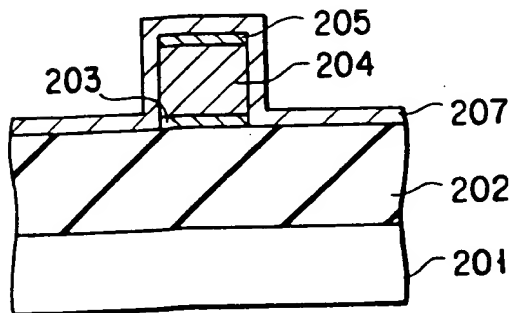


FIG. 1C PRIOR ART

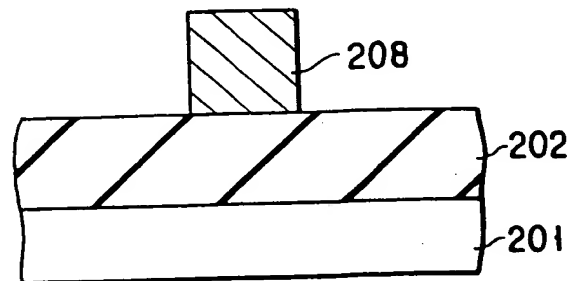


FIG. 3A PRIOR ART

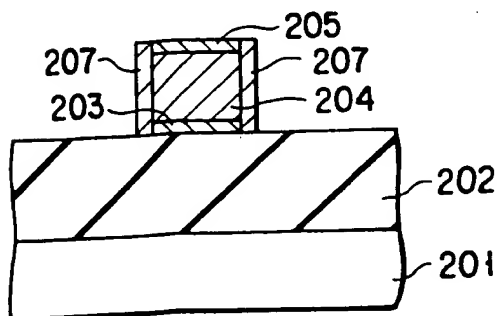


FIG. 1D PRIOR ART

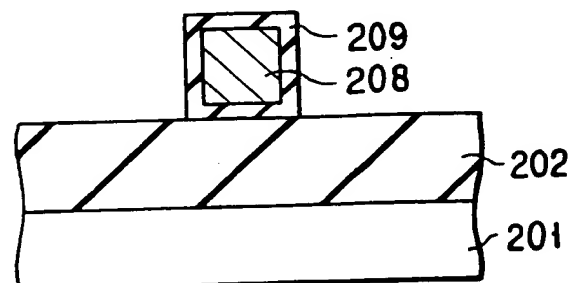


FIG. 3B PRIOR ART

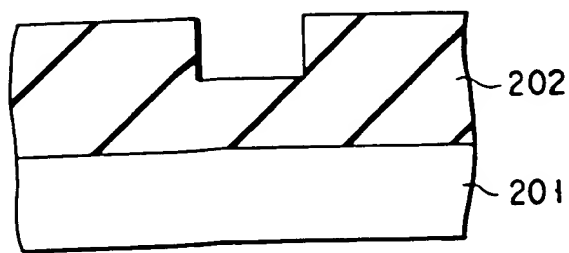


FIG. 4A PRIOR ART

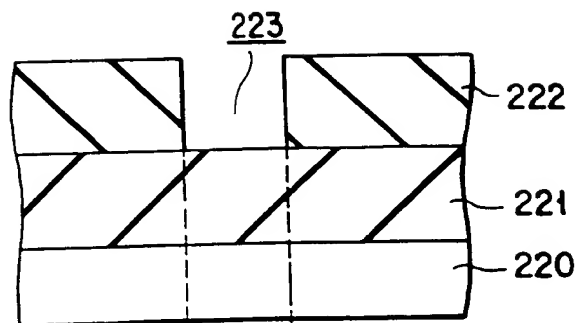


FIG. 5A PRIOR ART

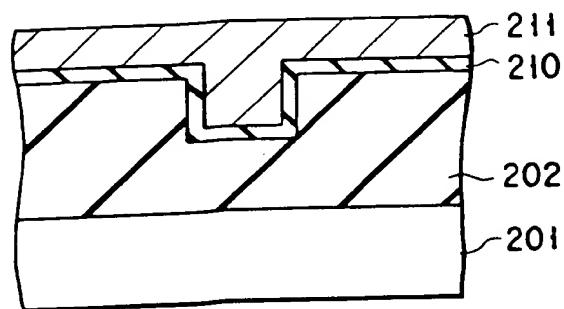


FIG. 4B PRIOR ART

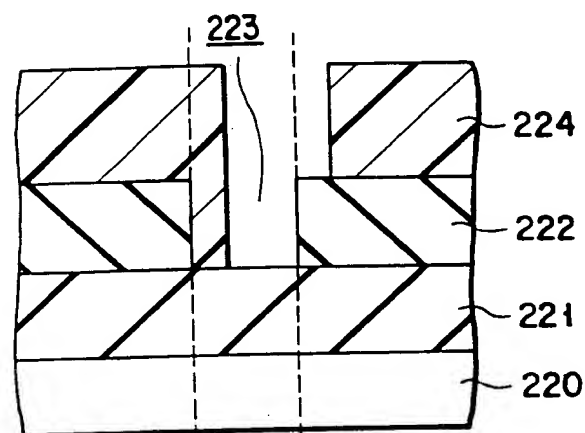


FIG. 5B PRIOR ART

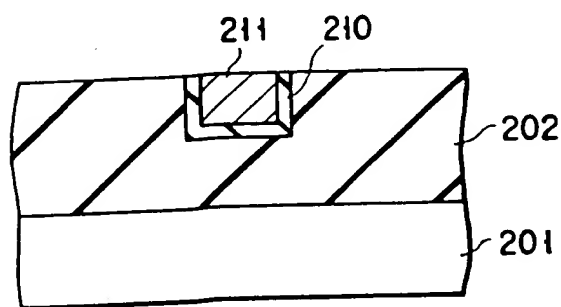


FIG. 4C PRIOR ART

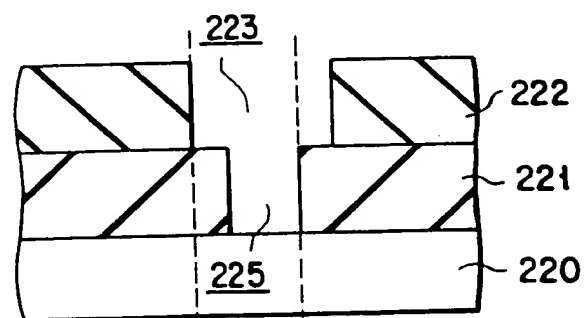


FIG. 5C PRIOR ART

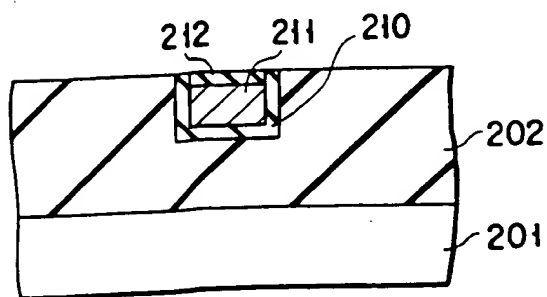


FIG. 4D PRIOR ART

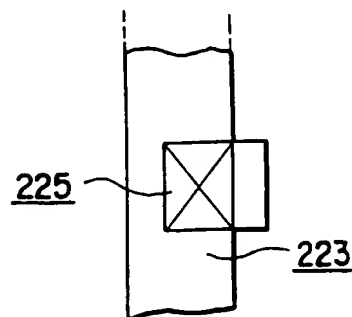
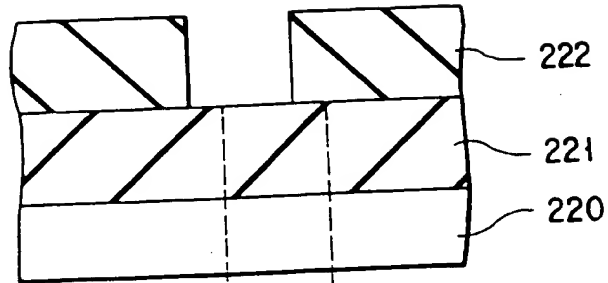


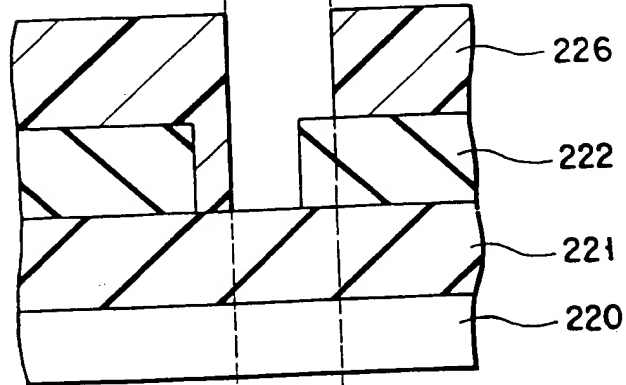
FIG. 5D PRIOR ART



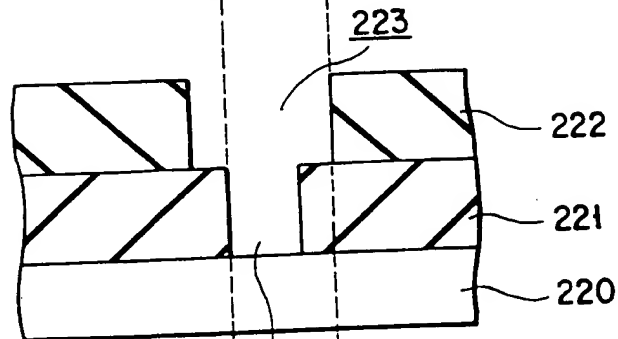
PRIOR ART
FIG. 6A



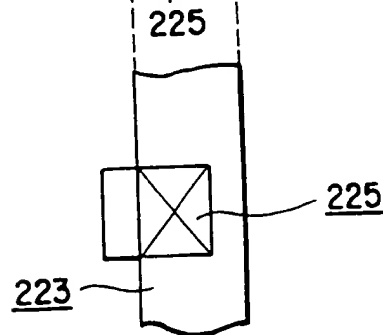
PRIOR ART
FIG. 6B



PRIOR ART
FIG. 6C

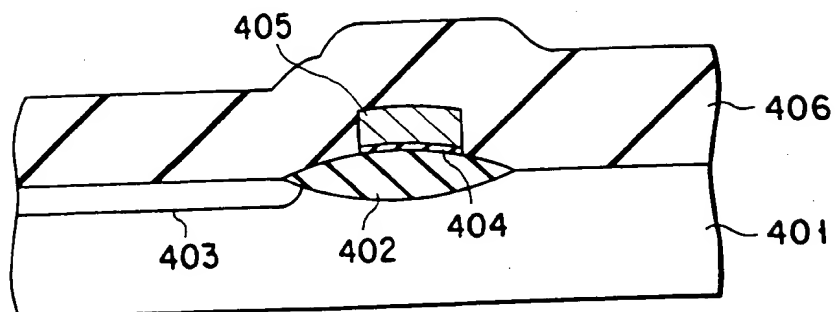


PRIOR ART
FIG. 6D

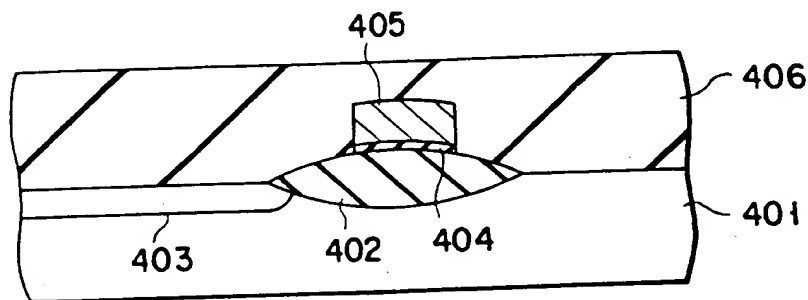




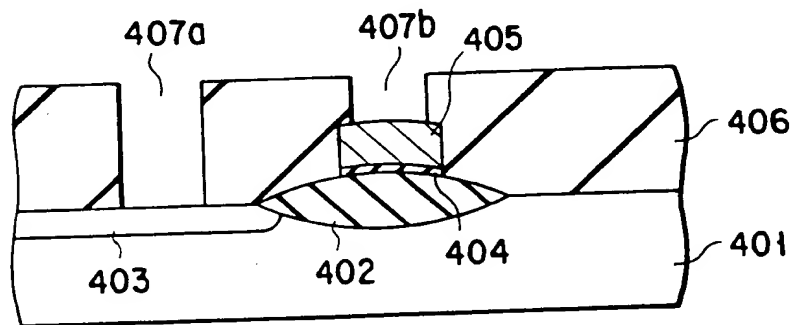
PRIOR ART
FIG. 7A



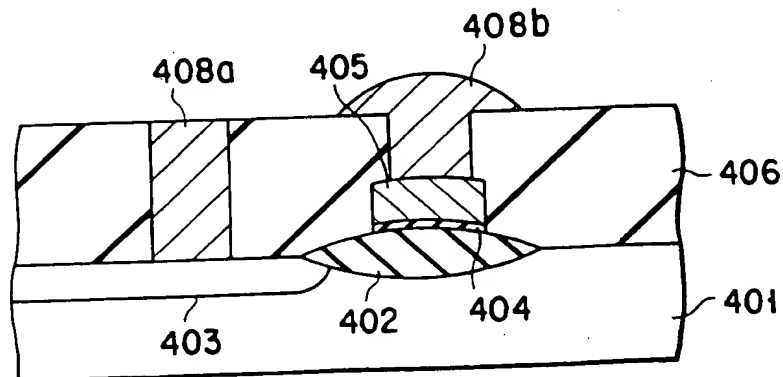
PRIOR ART
FIG. 7B



PRIOR ART
FIG. 7C



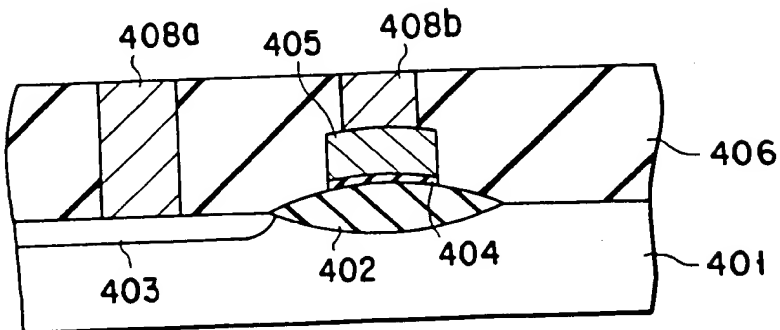
PRIOR ART
FIG. 7D



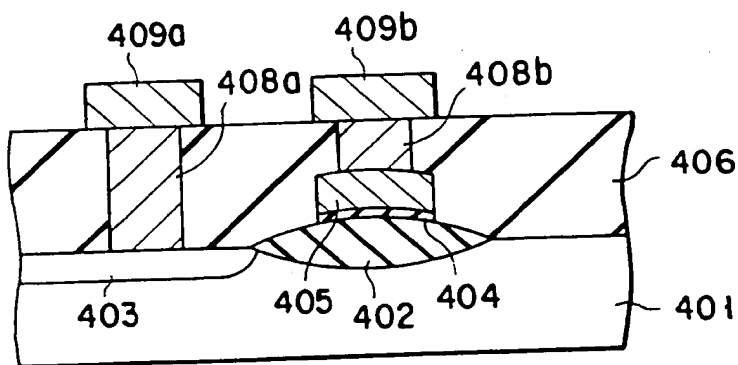


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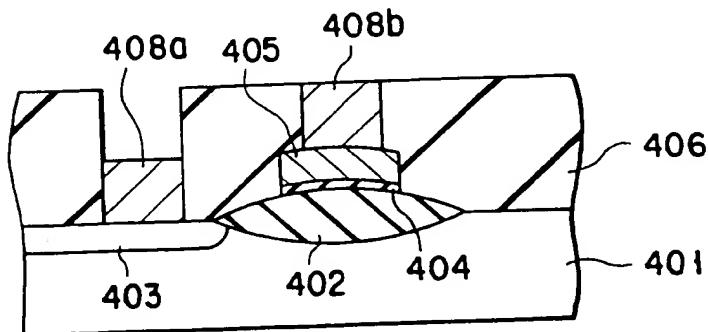
PRIOR ART
FIG. 7E



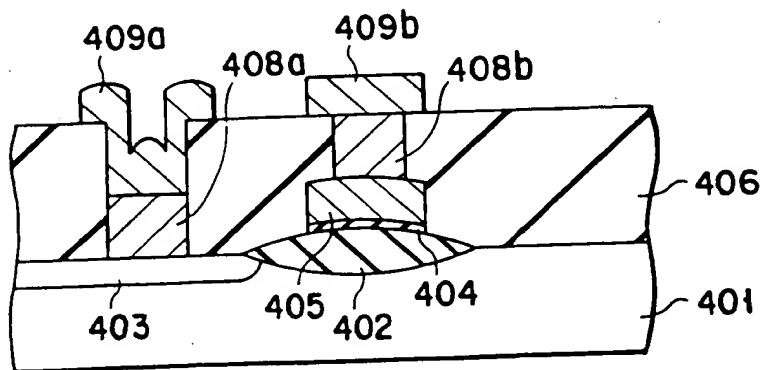
PRIOR ART
FIG. 7F



PRIOR ART
FIG. 8A

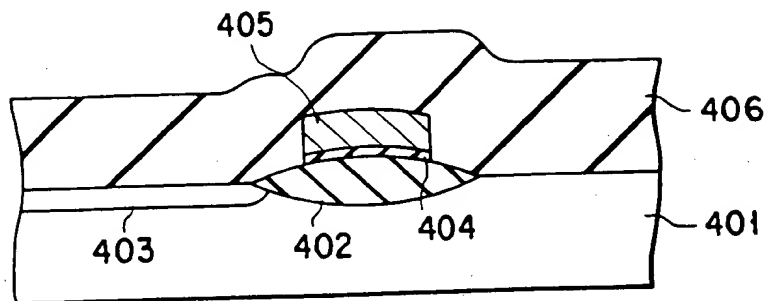


PRIOR ART
FIG. 8B

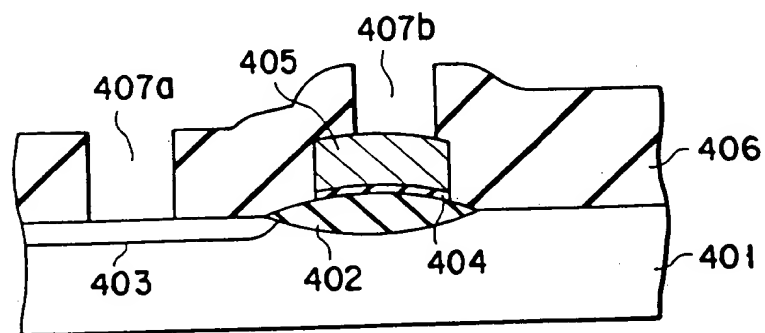




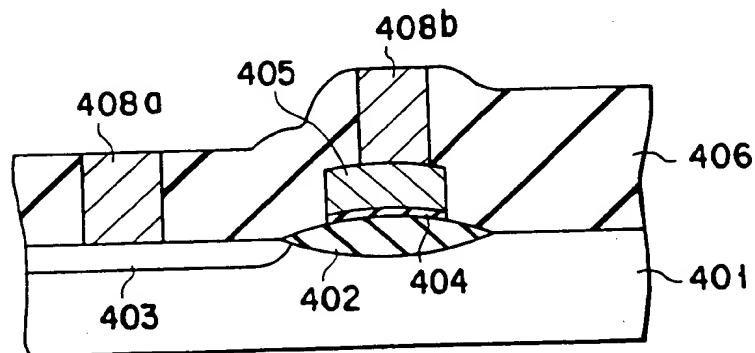
PRIOR ART
FIG. 9A



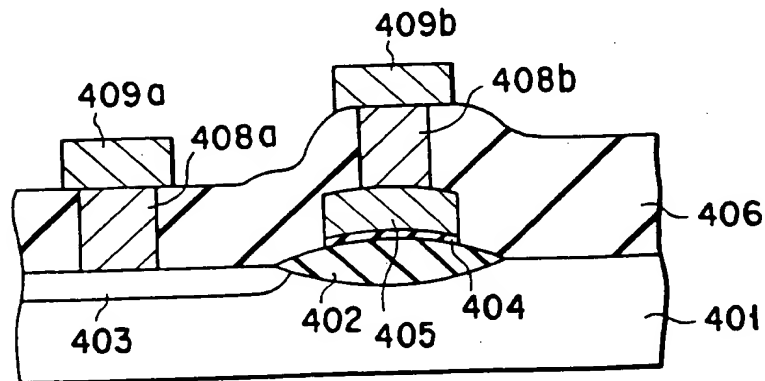
PRIOR ART
FIG. 9B



PRIOR ART
FIG. 9C

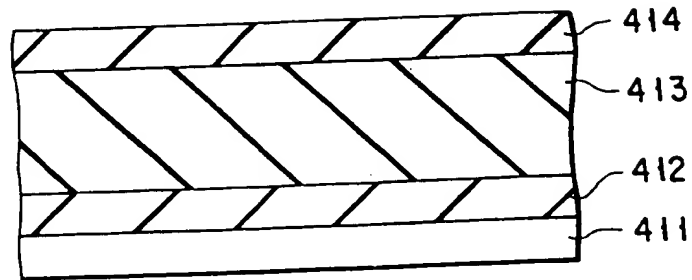


PRIOR ART
FIG. 9D





PRIOR ART
FIG. 10A



PRIOR ART
FIG. 10B

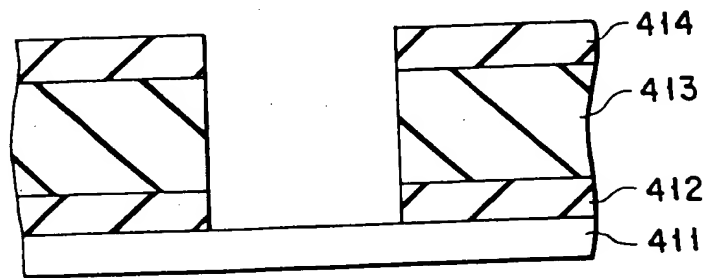


FIG. 12

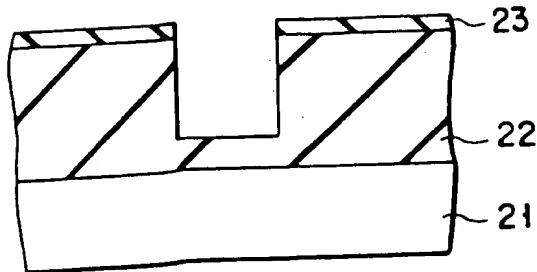
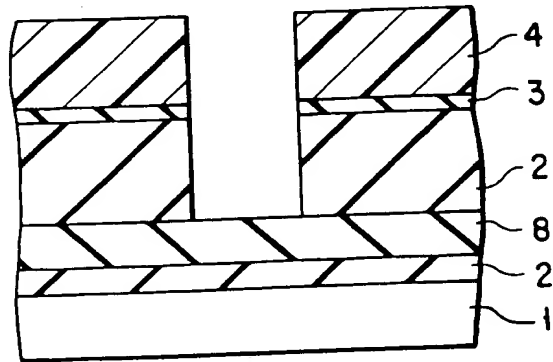


FIG. 14A

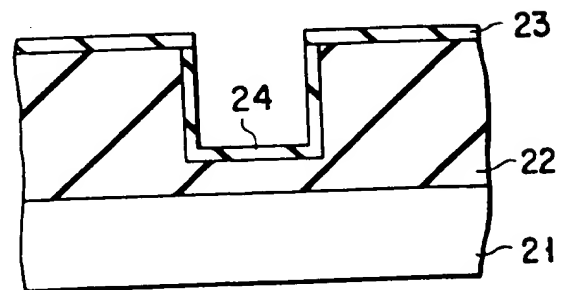


FIG. 14B

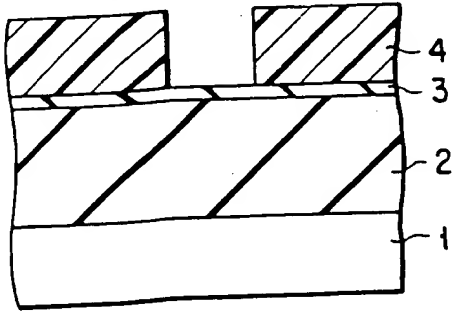


FIG. 11A

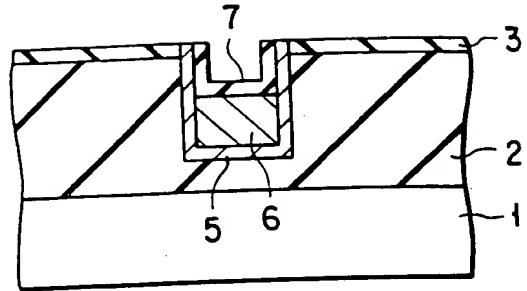


FIG. 11E

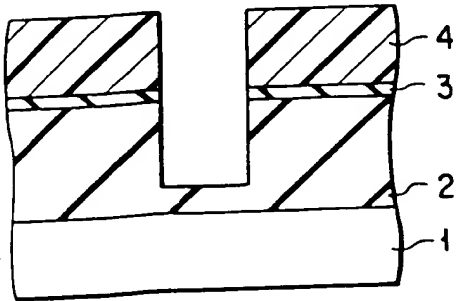


FIG. 11B

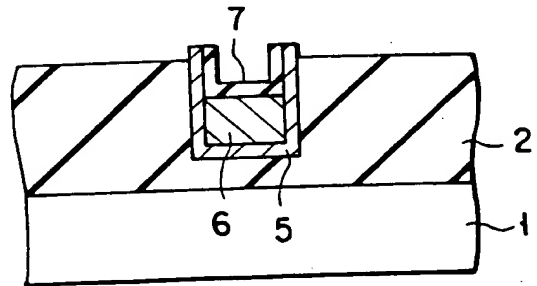


FIG. 11F

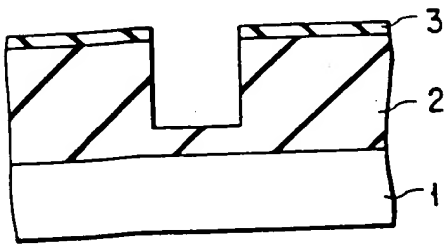


FIG. 11C

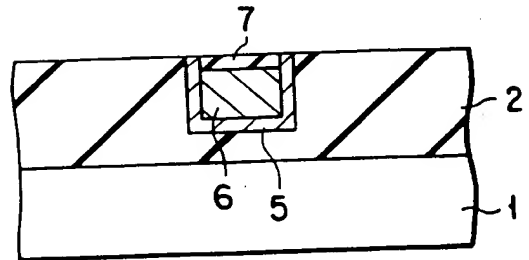


FIG. 11G

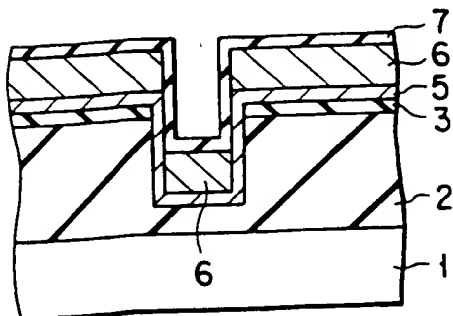


FIG. 11D

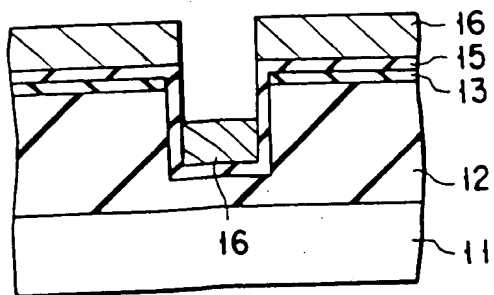


FIG. 13A

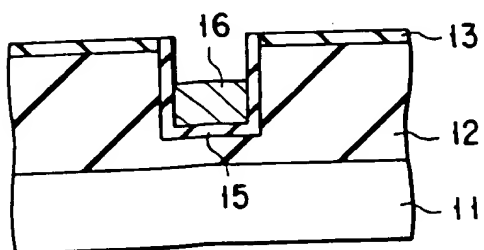


FIG. 13B

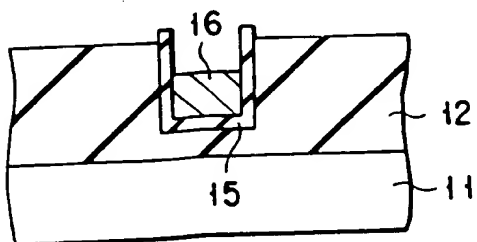


FIG. 13C

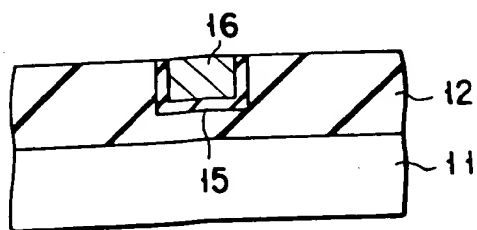


FIG. 13D

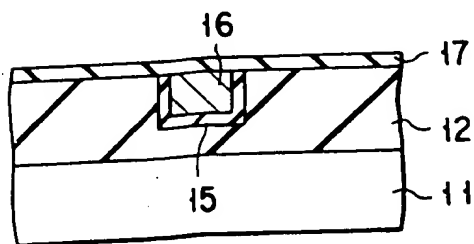


FIG. 13E

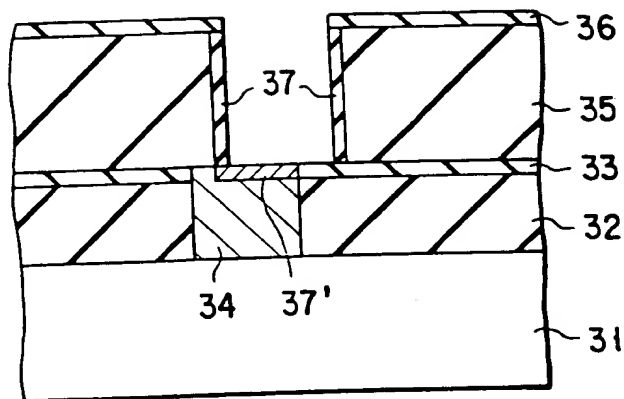


FIG. 15A

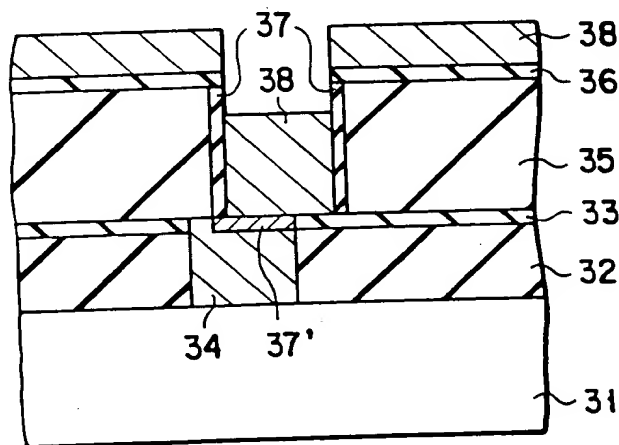


FIG. 15B

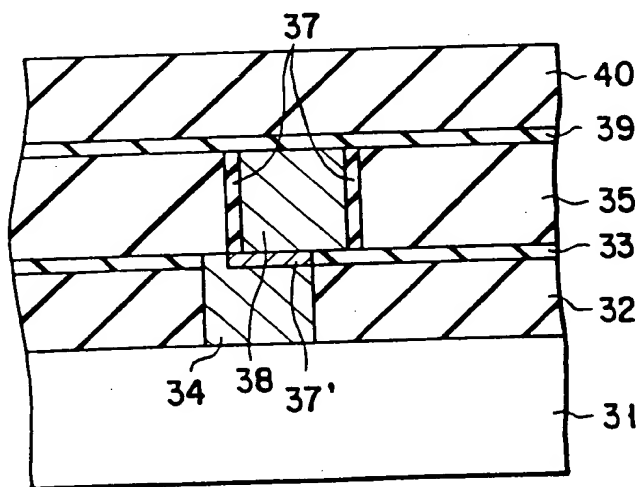


FIG. 15C



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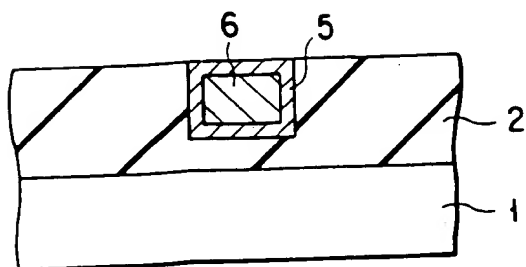


FIG. 16

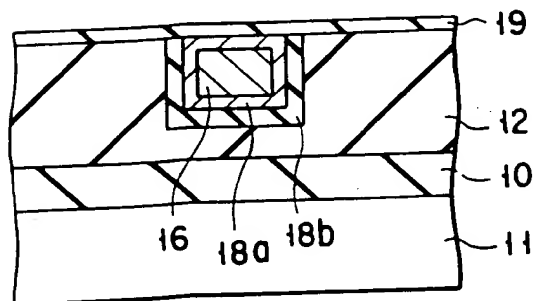


FIG. 17

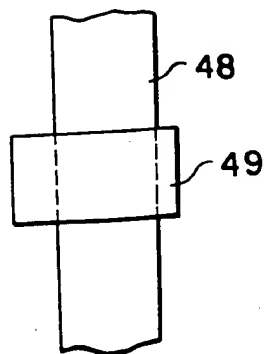


FIG. 19A

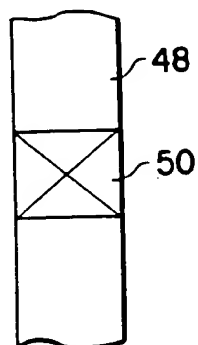


FIG. 19B

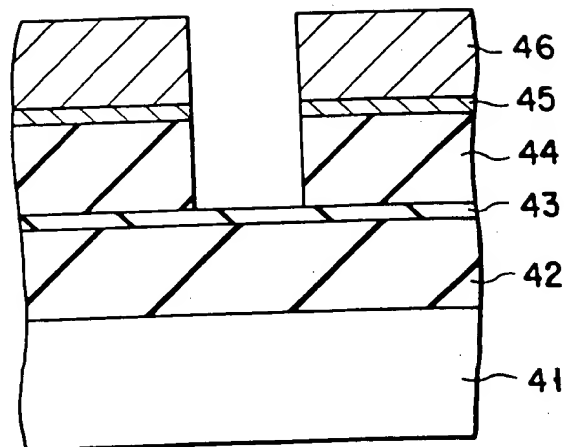


FIG. 18A

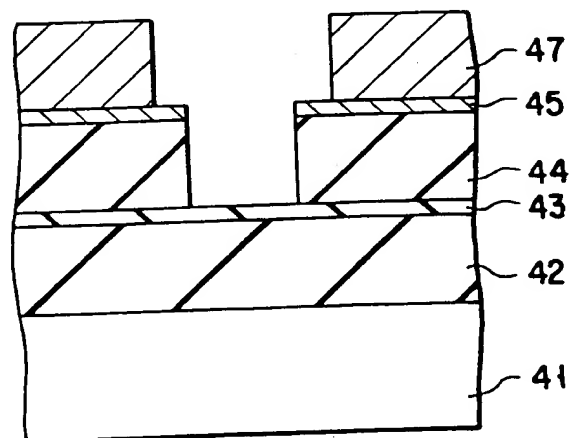


FIG. 18B

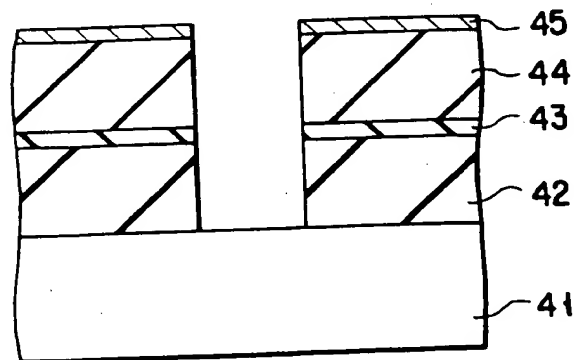


FIG. 18C



FIG. 20A

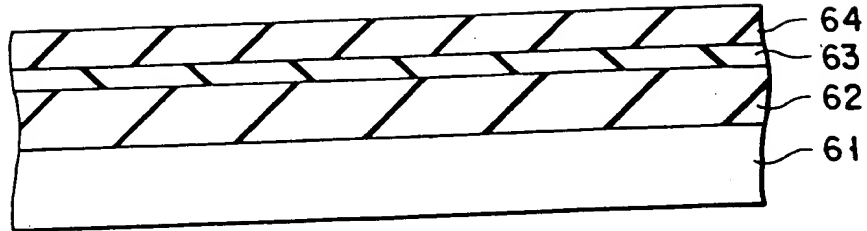


FIG. 20B

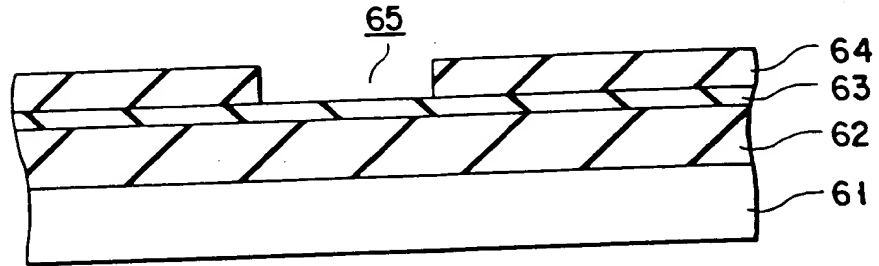


FIG. 20C

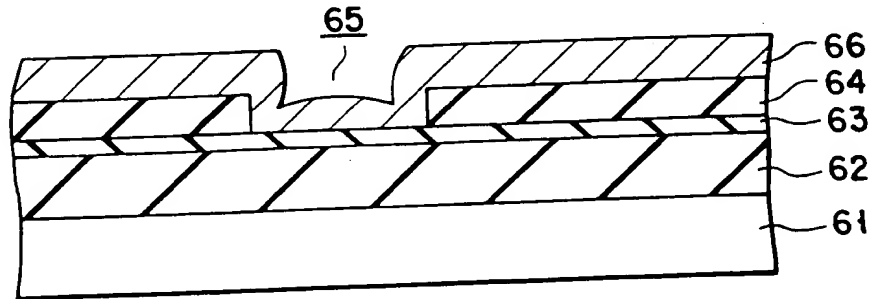


FIG. 20D

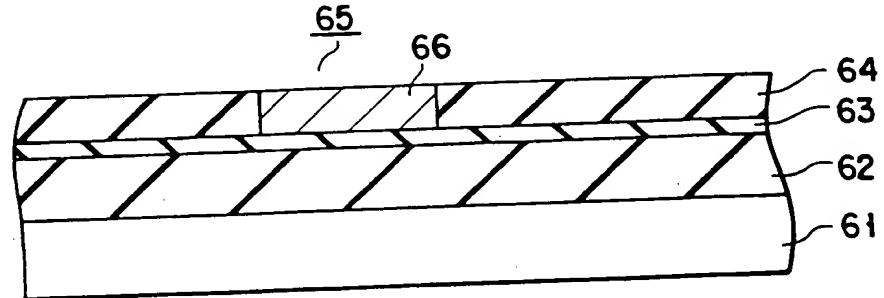




FIG. 21A

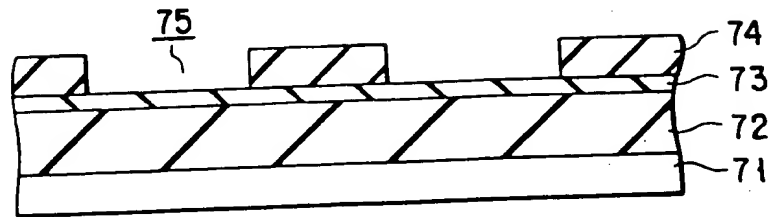


FIG. 21B

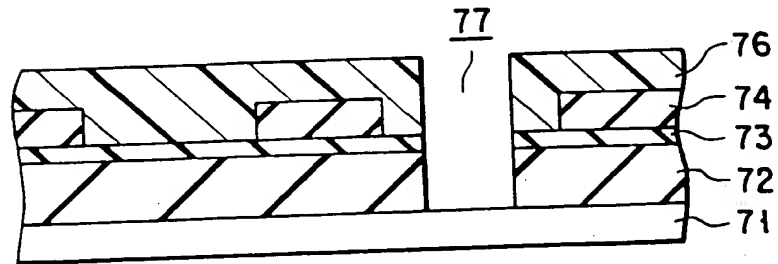


FIG. 21C

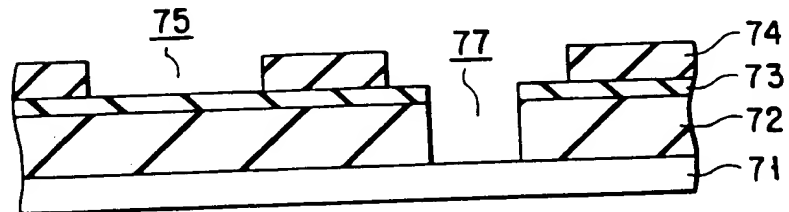


FIG. 21D

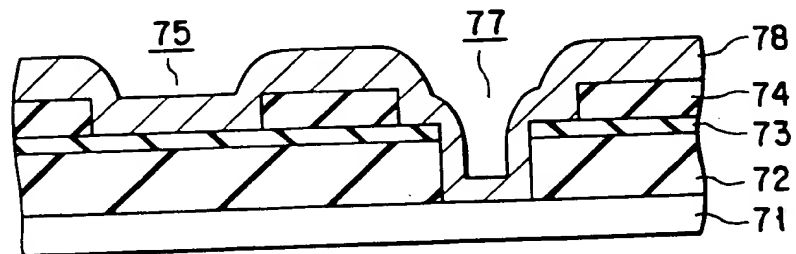


FIG. 21E

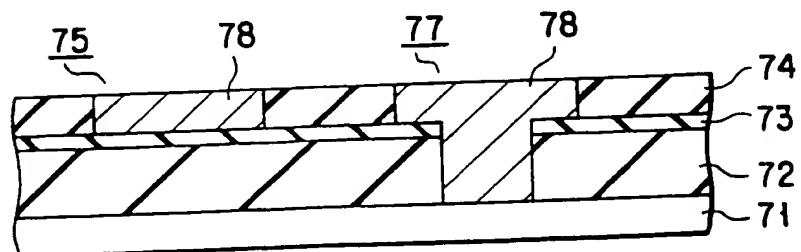




FIG. 22A

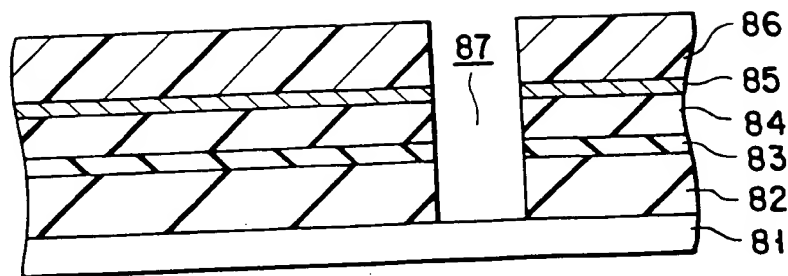


FIG. 22B

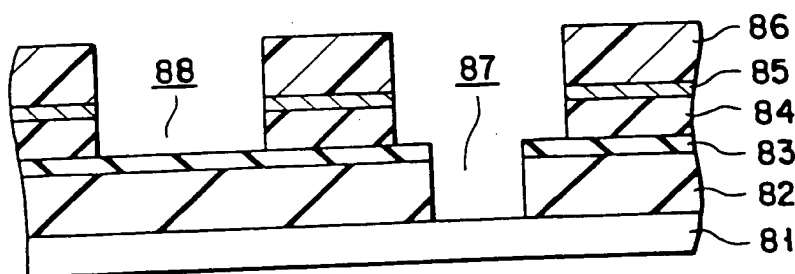


FIG. 22C

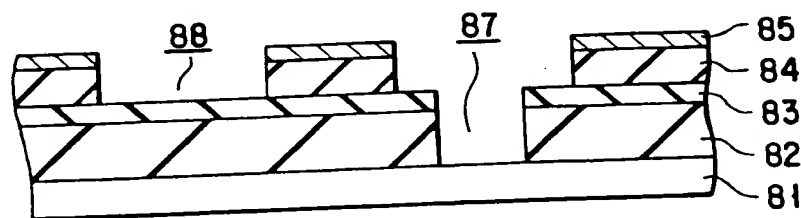


FIG. 22D

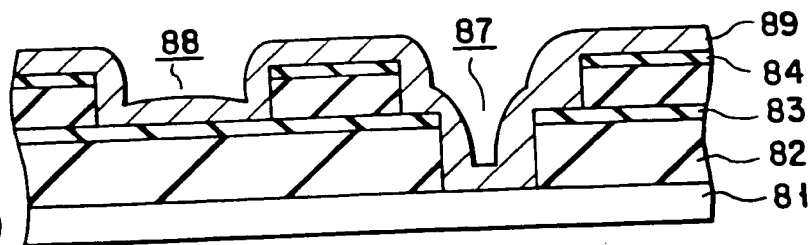


FIG. 22E

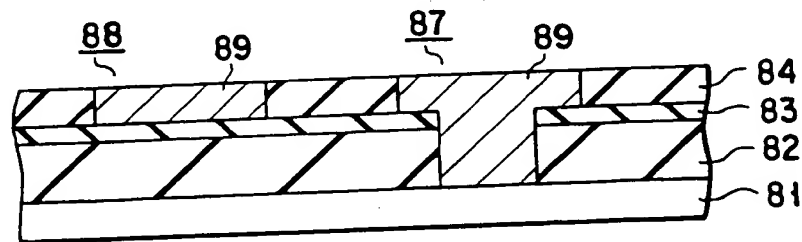




FIG. 23A

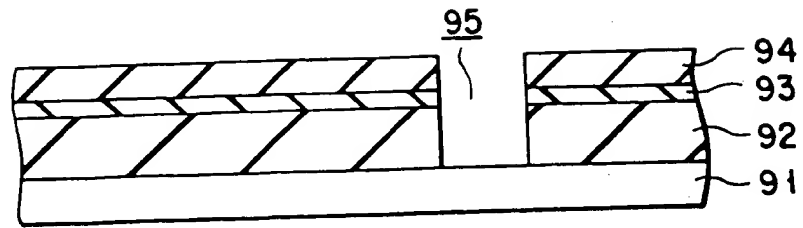


FIG. 23B

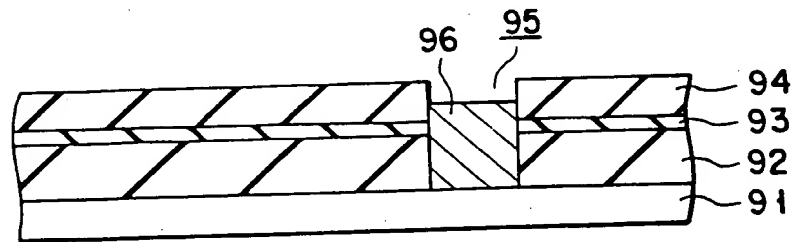


FIG. 23C

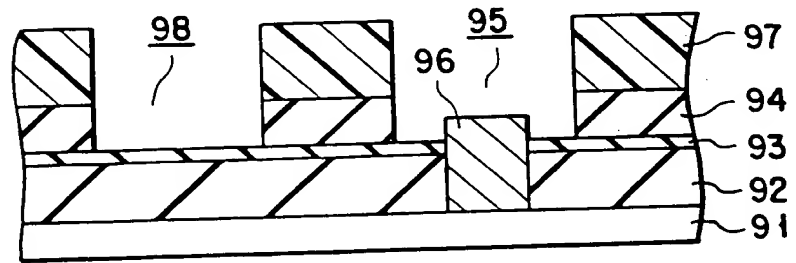


FIG. 23D

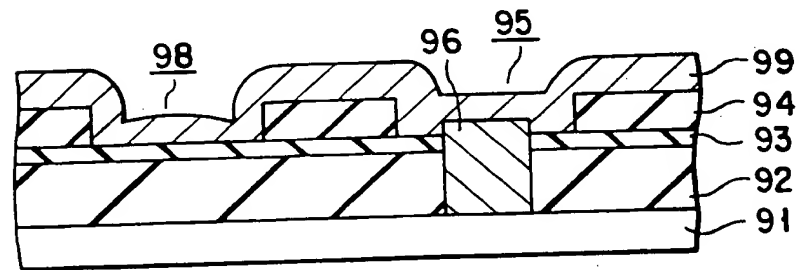
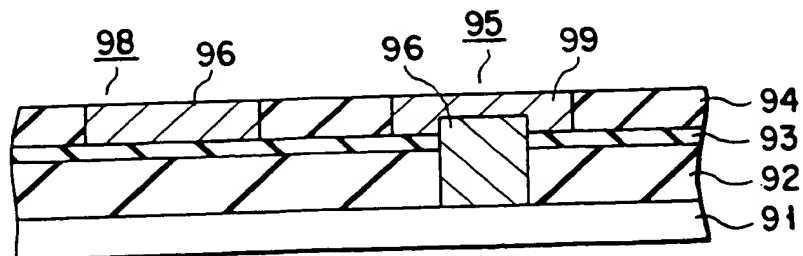


FIG. 23E



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FIG. 24A

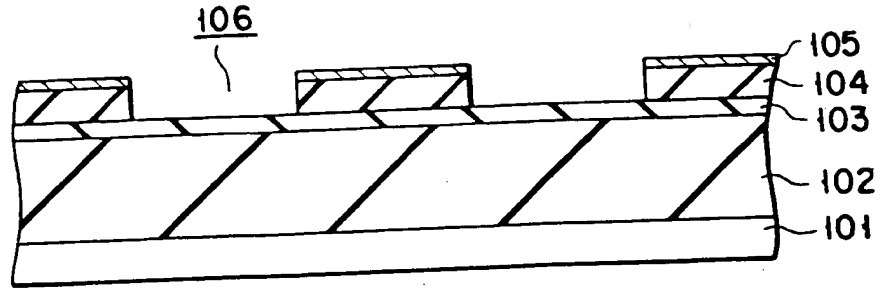


FIG. 24B

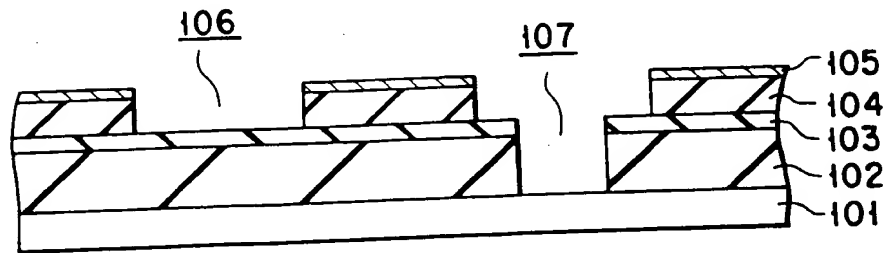


FIG. 24C

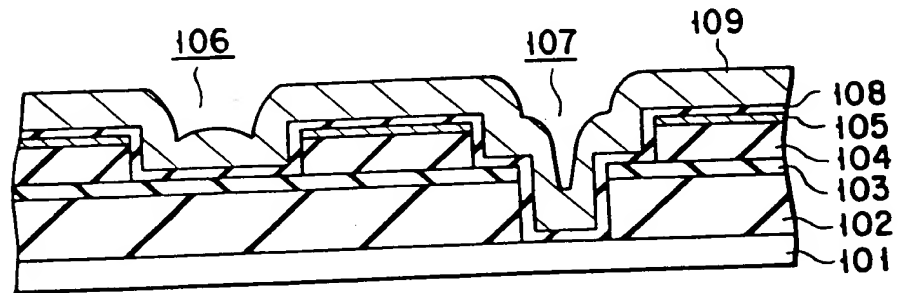


FIG. 24D

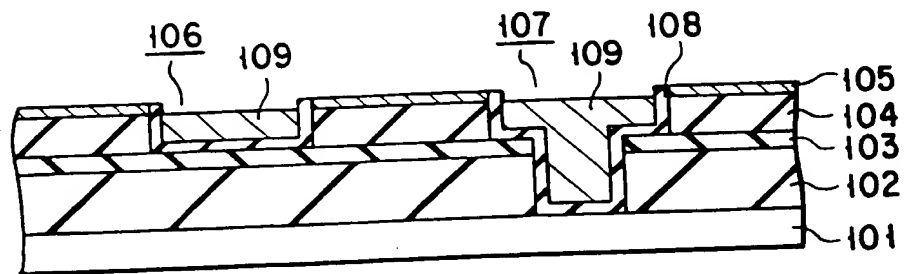


FIG. 24E

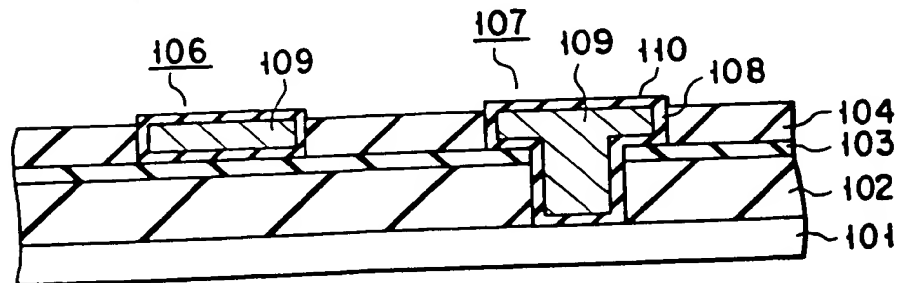




FIG. 25A

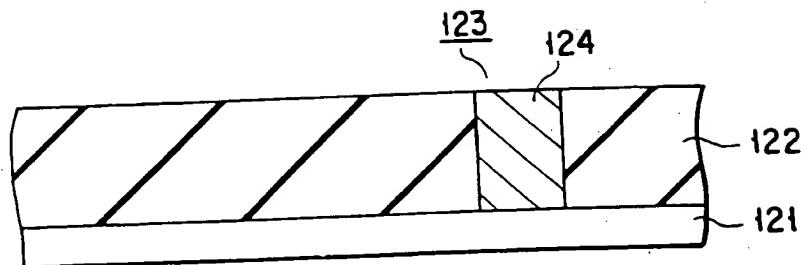


FIG. 25B

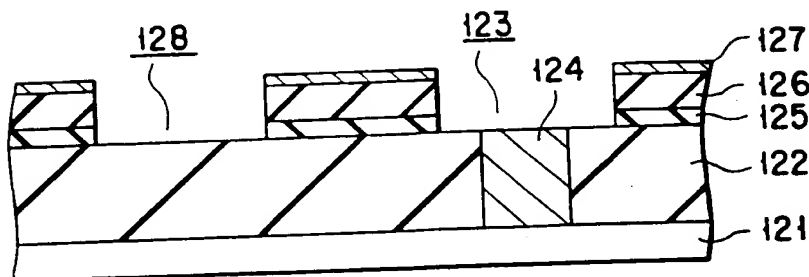


FIG. 25C

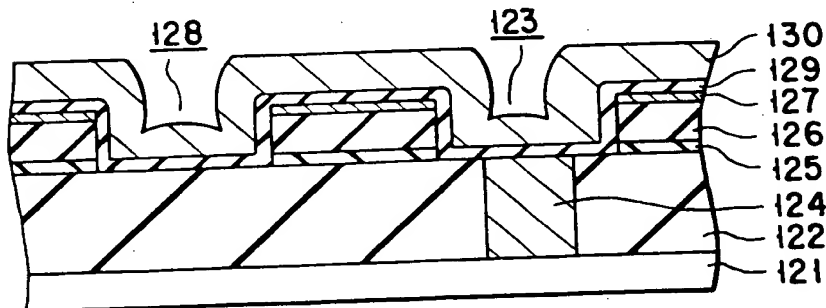


FIG. 25D

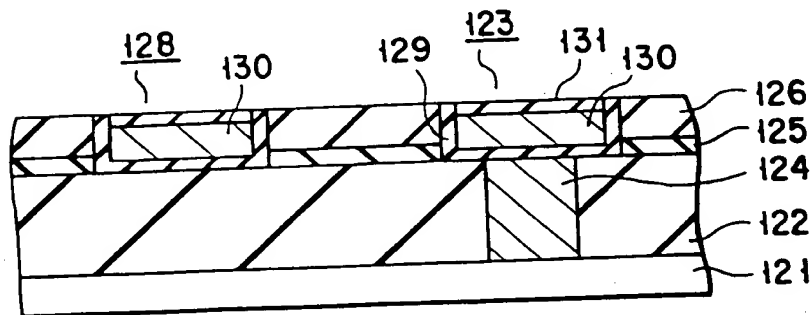
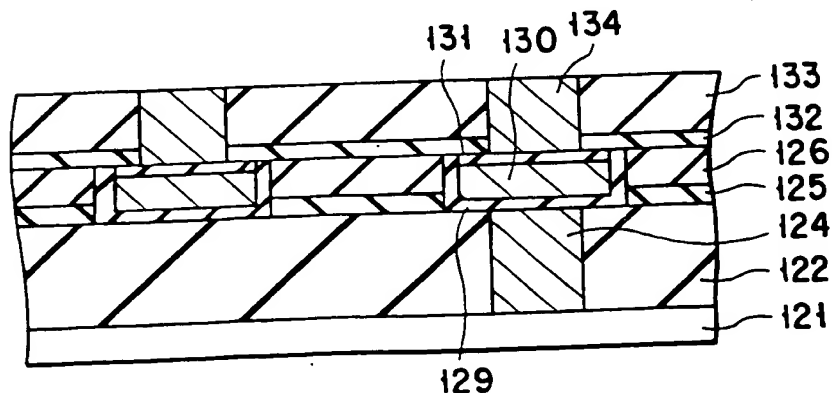


FIG. 25E



A cross-sectional view of a multi-layered structure. The structure consists of several layers. The bottom layer is labeled 141. Above it is a layer labeled 142. The top layer is labeled 146. There are two intermediate layers labeled 145 and 144. A central region is labeled 143. A small rectangular feature on the left is labeled 147.

A cross-sectional view of a multi-layered material. The material consists of a central core (144) and a surface layer (141). The core (144) is composed of alternating layers of material 142 and 145. The surface layer (141) is composed of alternating layers of material 146 and 149. A central vertical line (151) is shown, with a cross-hatched region (152) at its base. A vertical line (148) is also shown, with a cross-hatched region (148) at its base. The layers are labeled 141, 142, 145, 146, 149, and 150 from bottom to top.

A cross-sectional view of a multi-layered structure. The structure consists of several horizontal layers. From top to bottom, the layers are labeled 154, 153, 150, 149, 146, 145, 142, and 141. There are two vertical sections or components labeled 157 and 156. Between these sections, there are labels 152 and 155. At the bottom, there are labels 141, 148, and 144. The layers are separated by horizontal lines, and the vertical sections are separated by vertical lines. The layers have different hatching patterns: 154 and 153 have diagonal hatching, 150 has horizontal hatching, 149 has diagonal hatching, 146 has horizontal hatching, 145 has diagonal hatching, 142 has horizontal hatching, and 141 has diagonal hatching. The vertical sections 157 and 156 have a cross-hatching pattern.



FIG. 27A

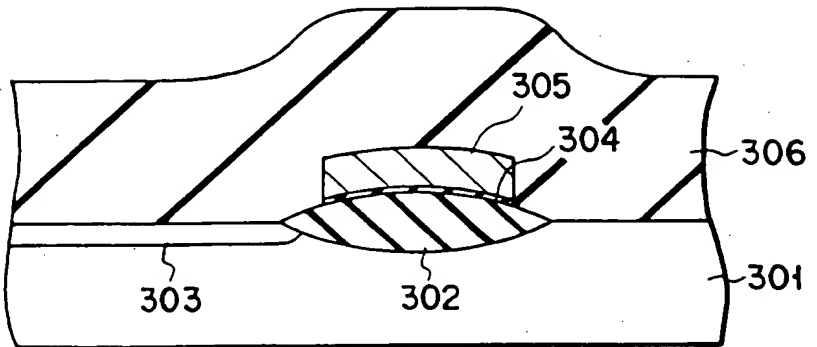


FIG. 27B

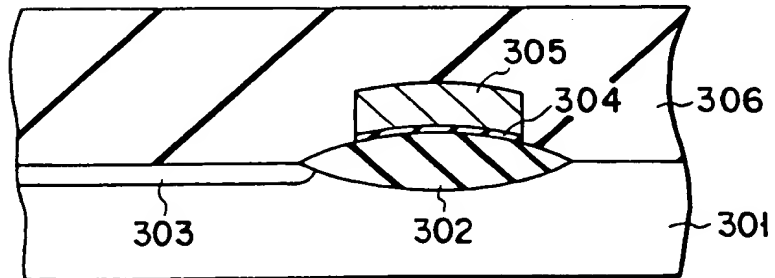


FIG. 27C

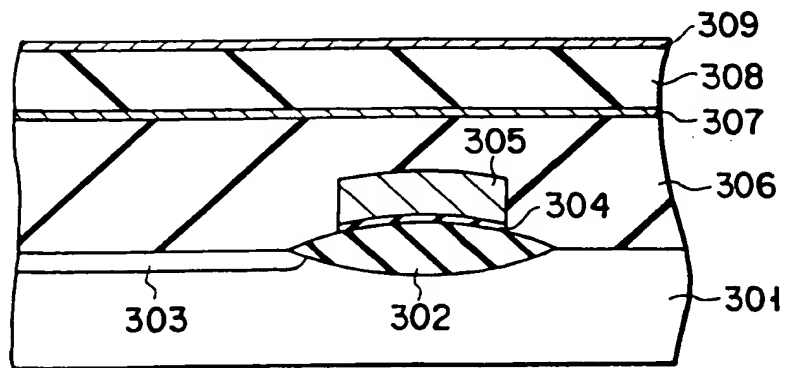




FIG. 27D

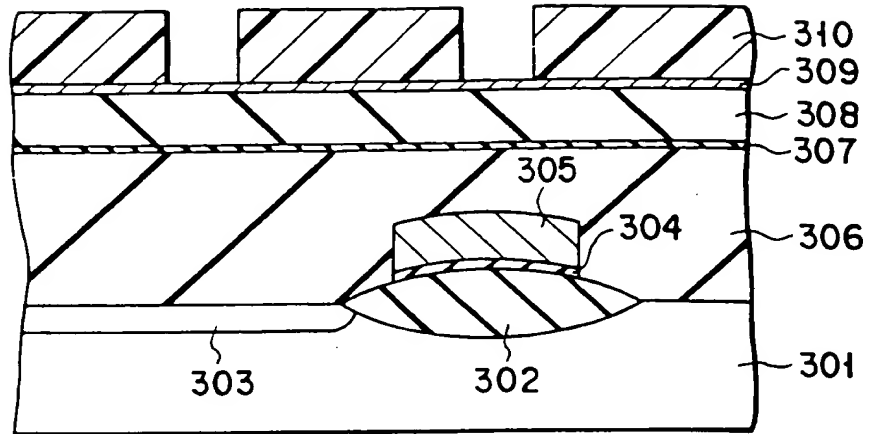


FIG. 27E

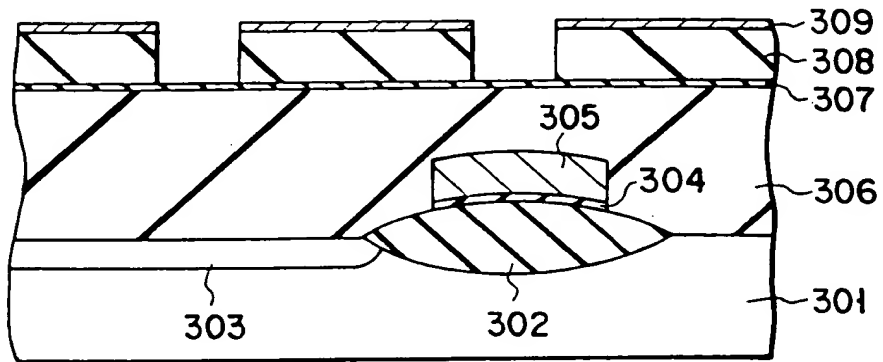


FIG. 27F

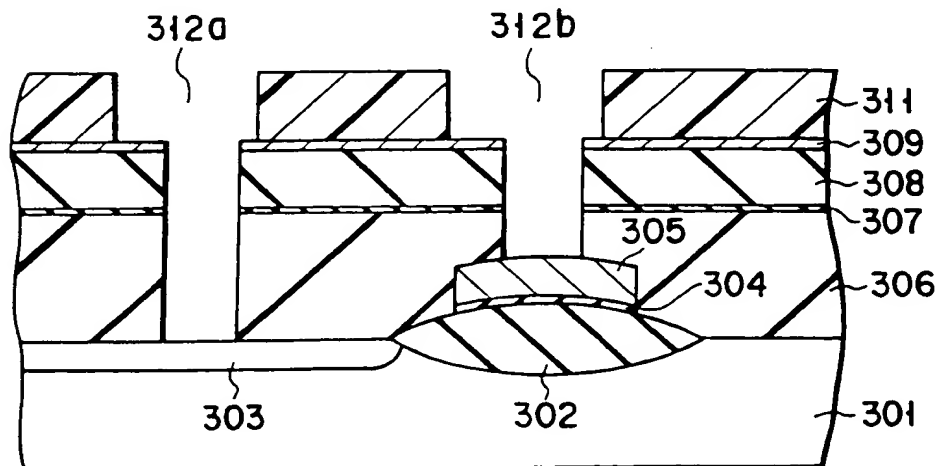




FIG. 27G

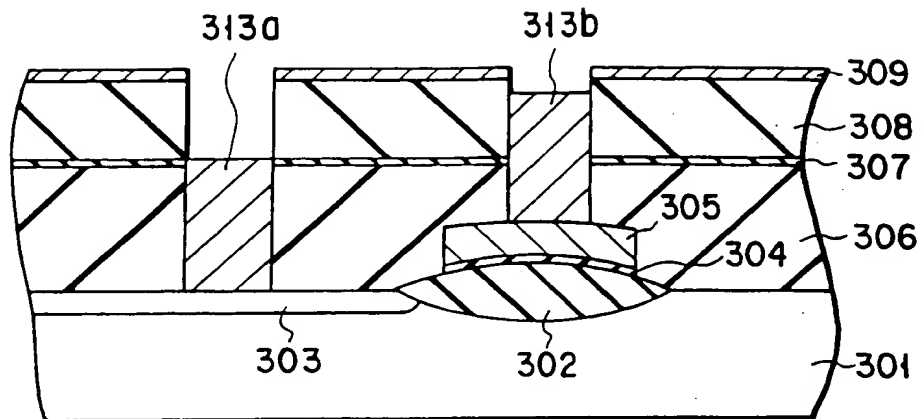


FIG. 27H

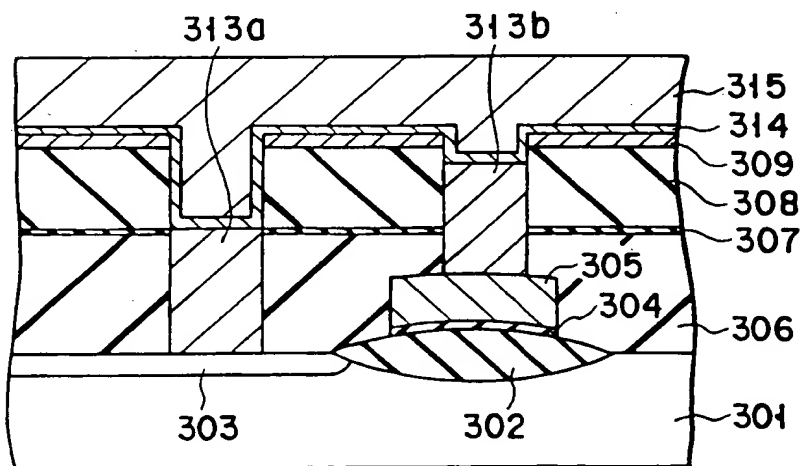
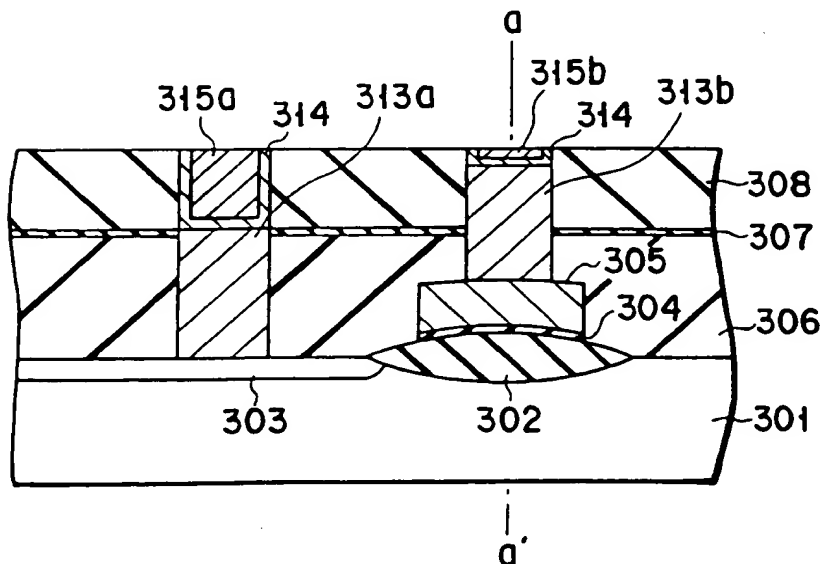


FIG. 27I



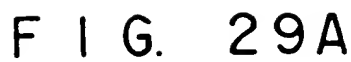




FIG. 31A

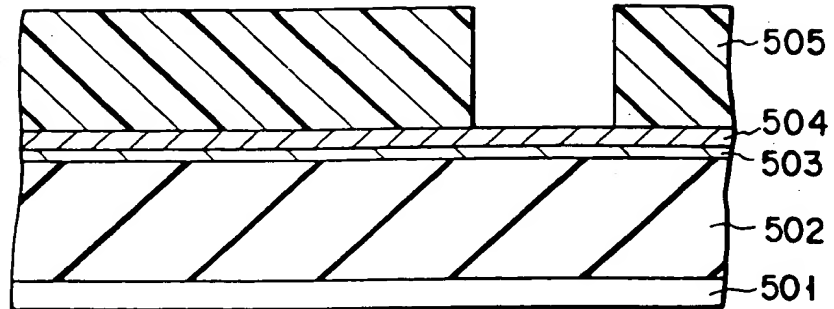


FIG. 31B

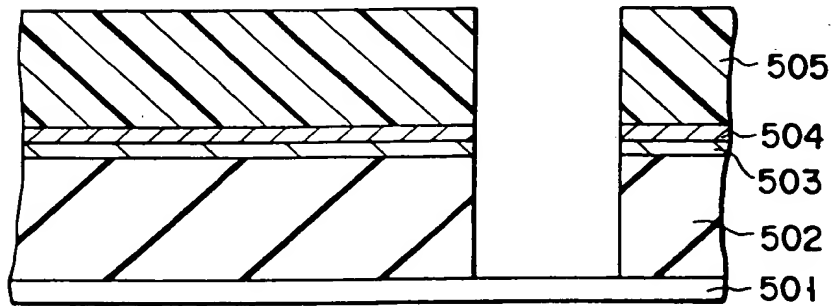


FIG. 31C

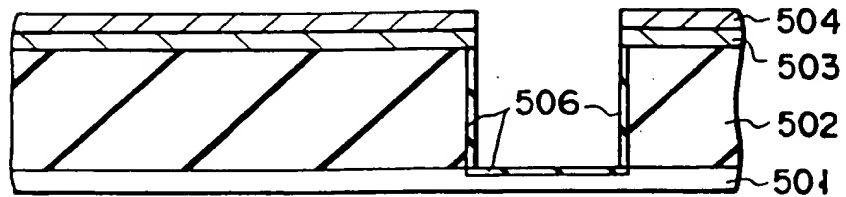
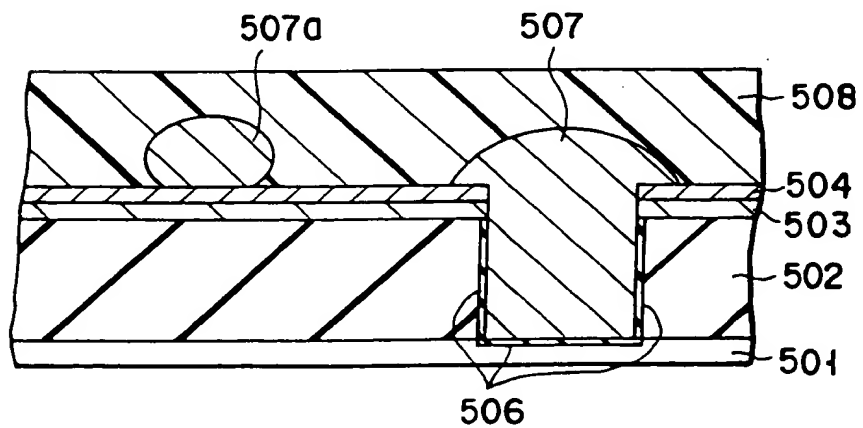


FIG. 31D





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FIG. 31E

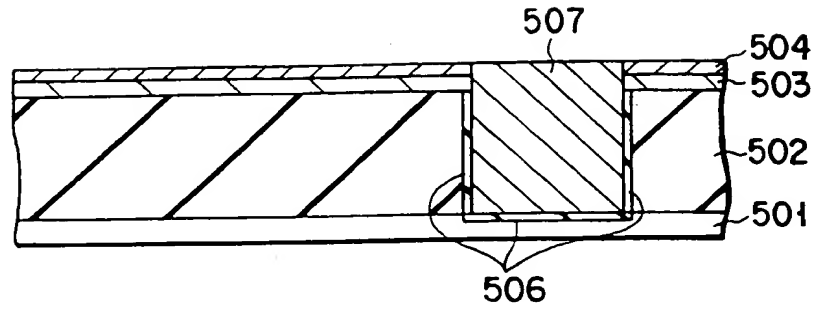


FIG. 31F

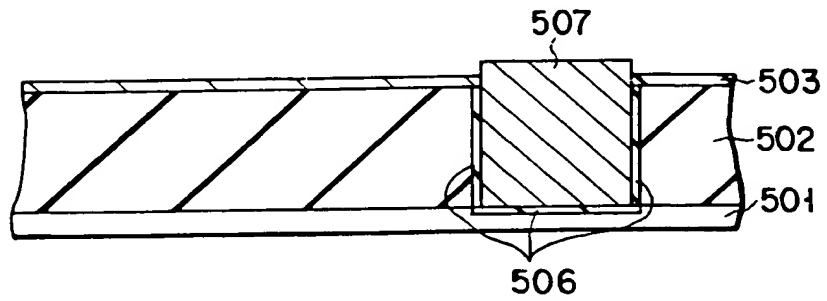
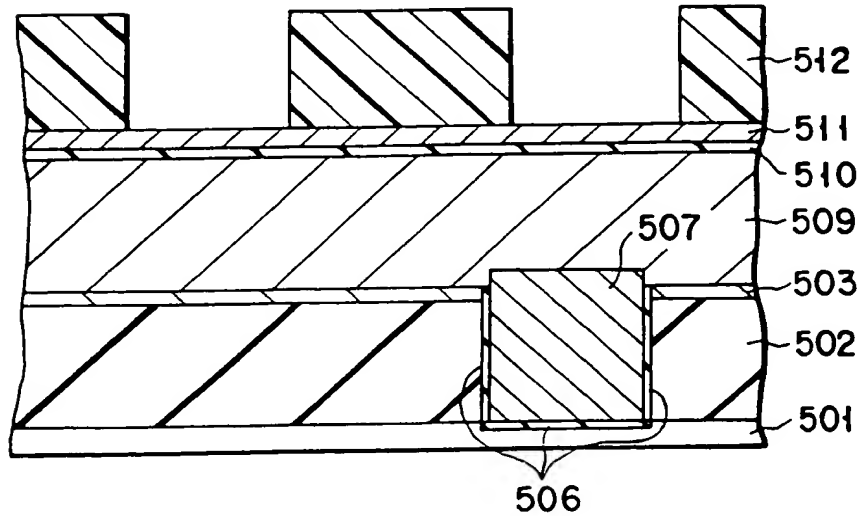


FIG. 31G



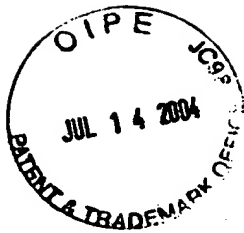


FIG. 31H

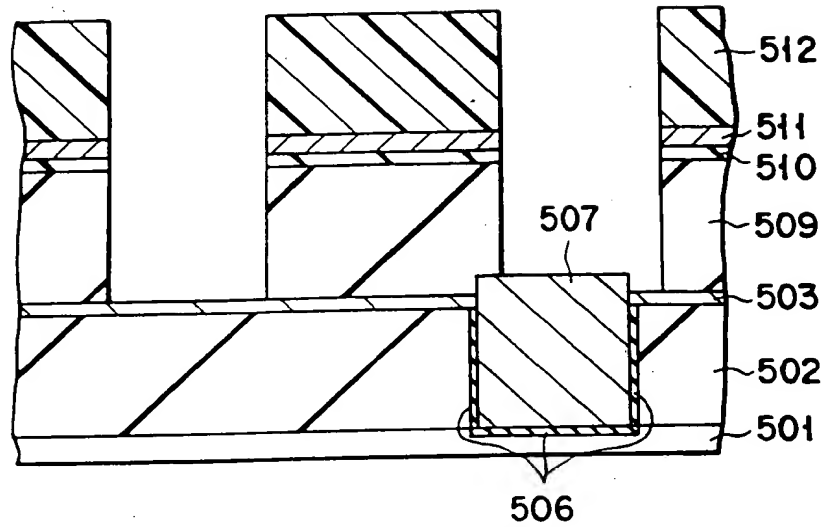


FIG. 31I

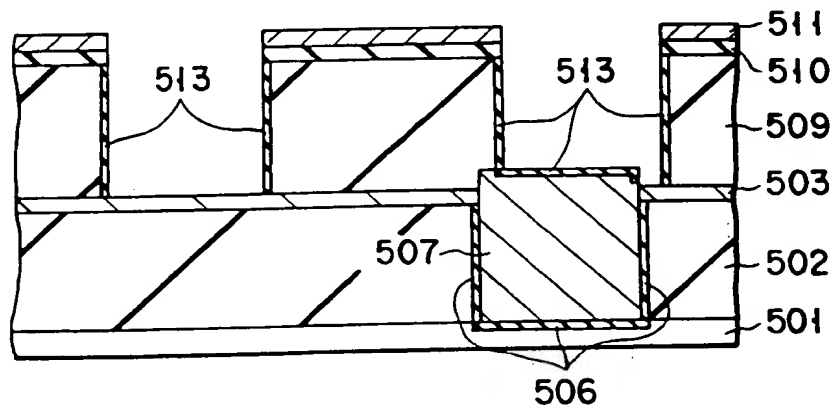
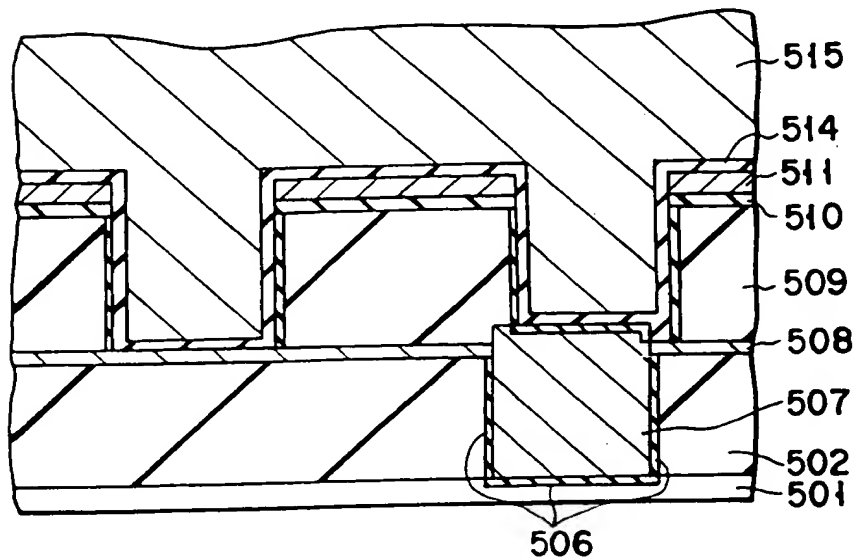


FIG. 31J



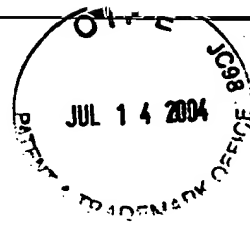
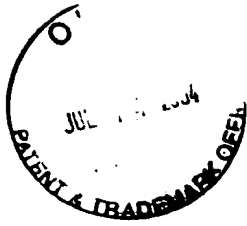


FIG. 31K

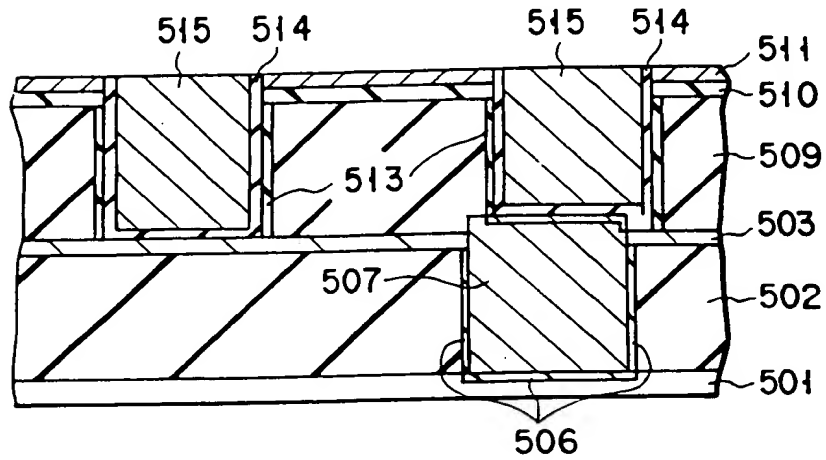


FIG. 31L

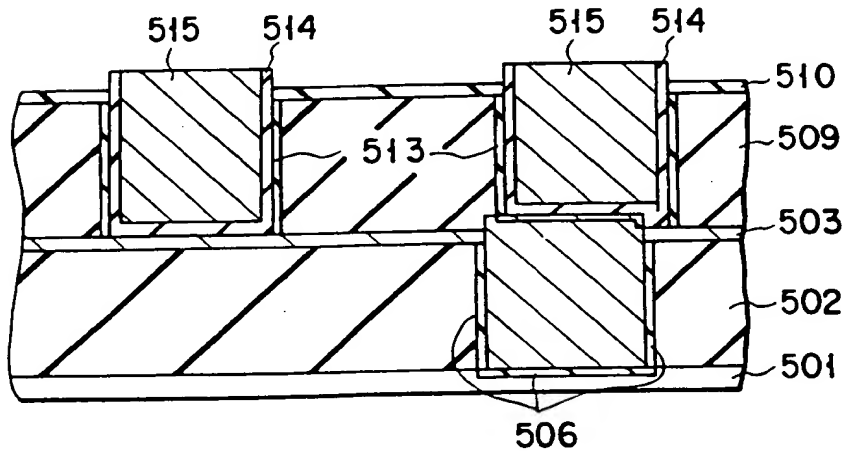
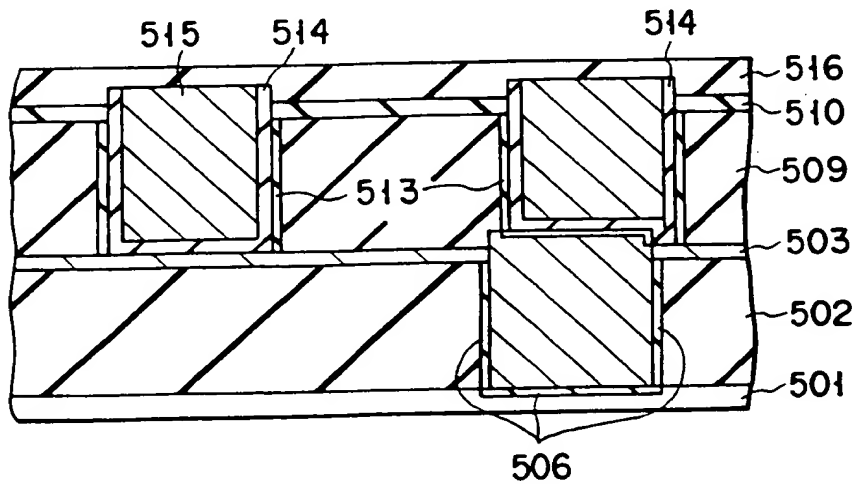


FIG. 31M



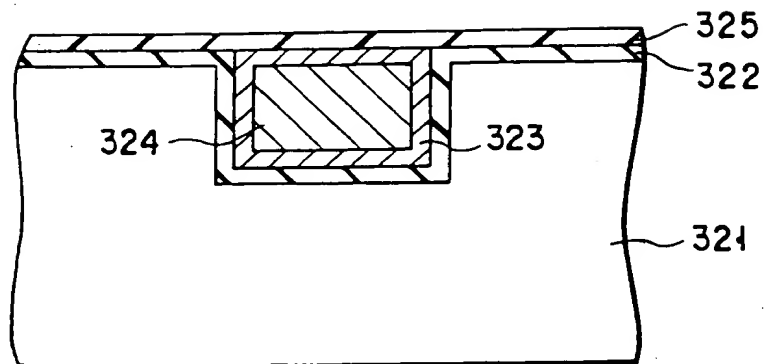


FIG. 30

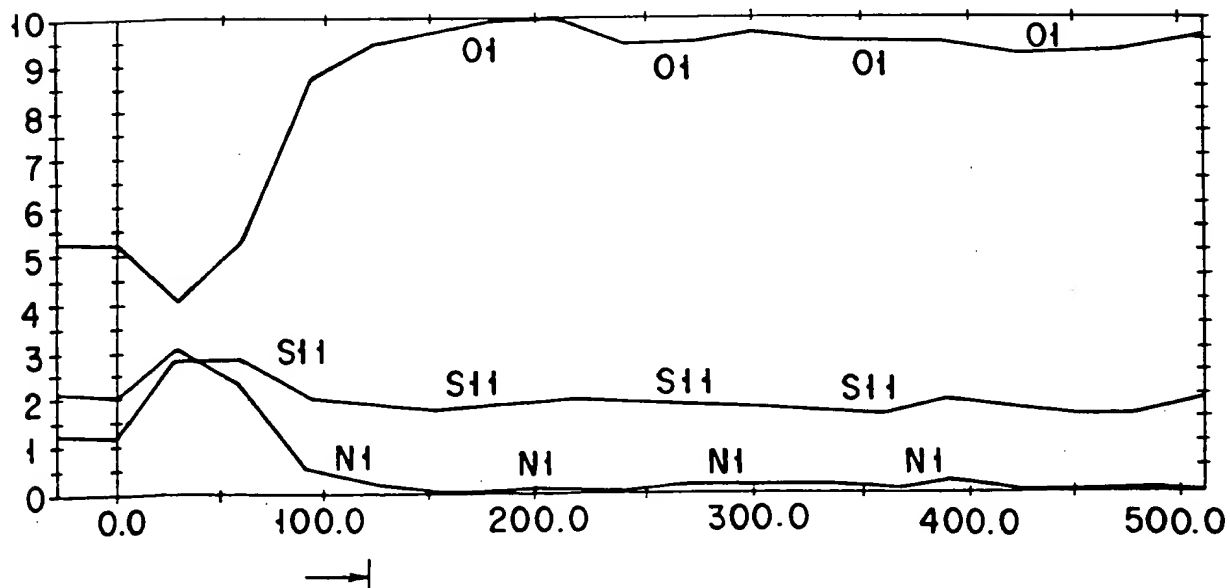


FIG. 32



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FIG. 33A

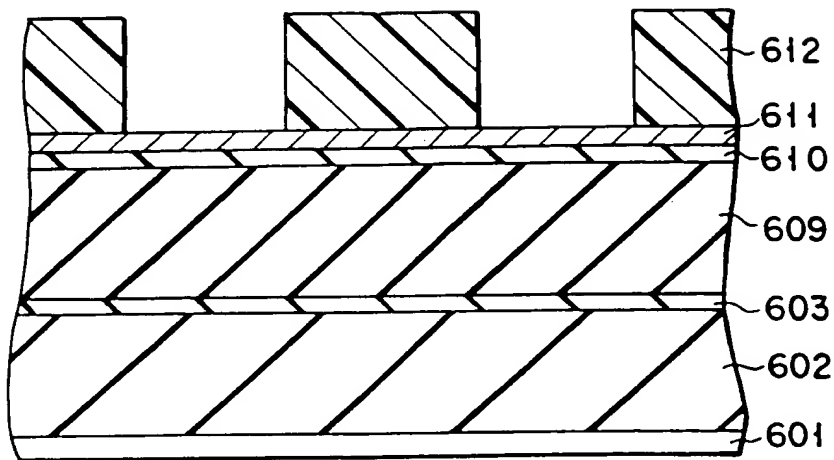


FIG. 33B

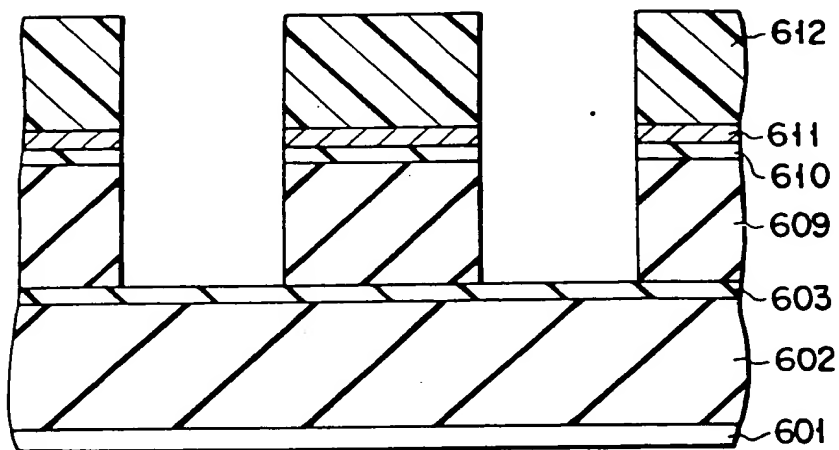
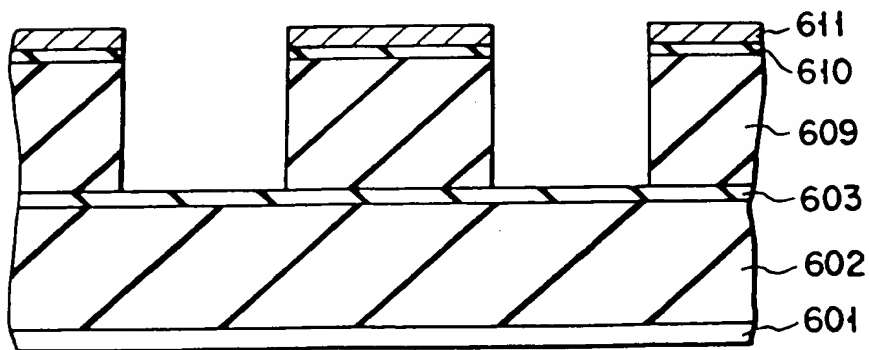


FIG. 33C





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FIG. 33D

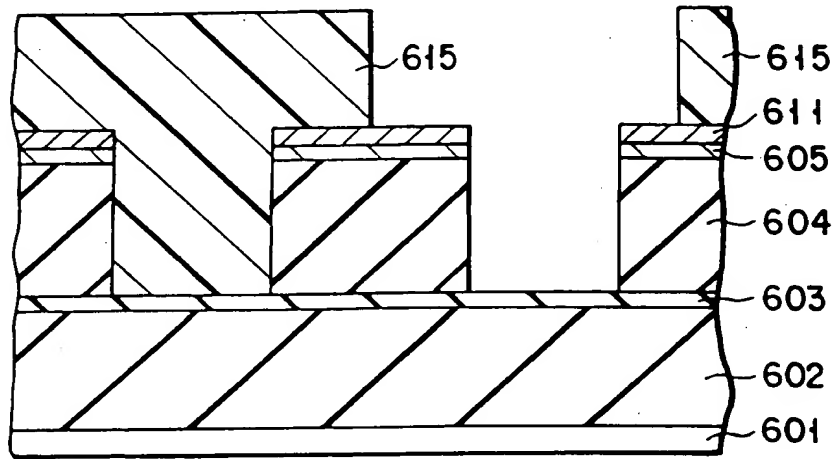


FIG. 33E

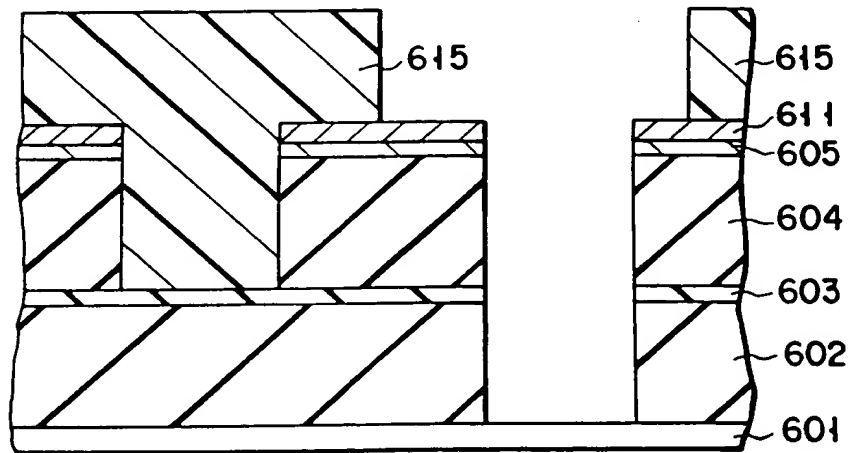
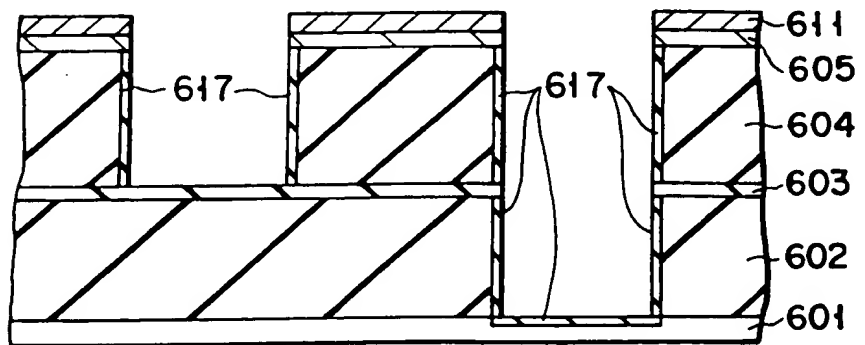


FIG. 33F



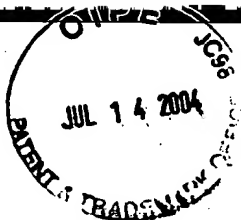


FIG. 33G

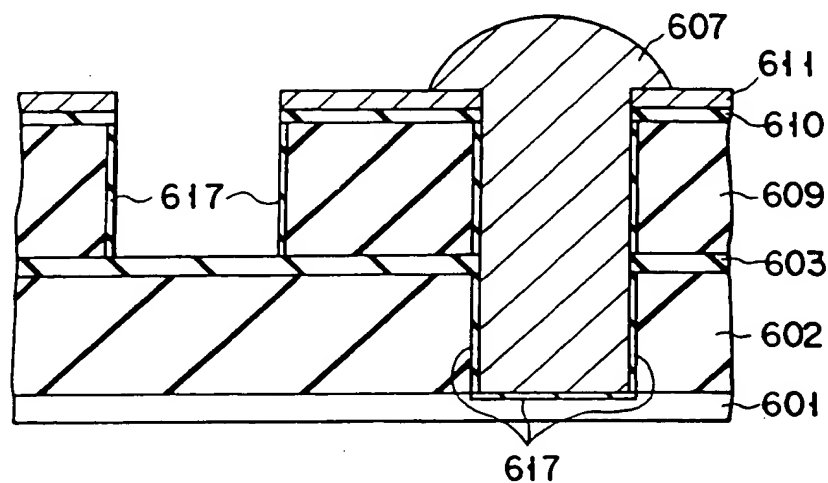


FIG. 33H

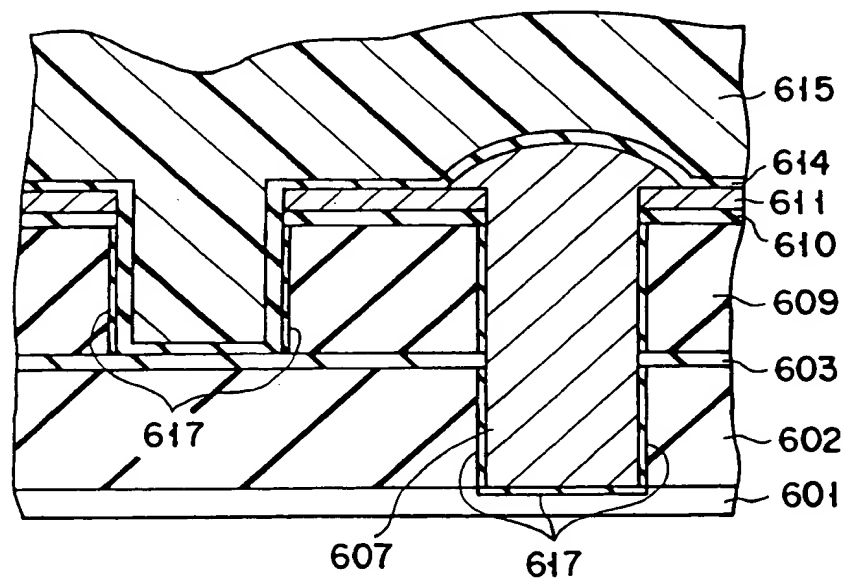


FIG. 33I

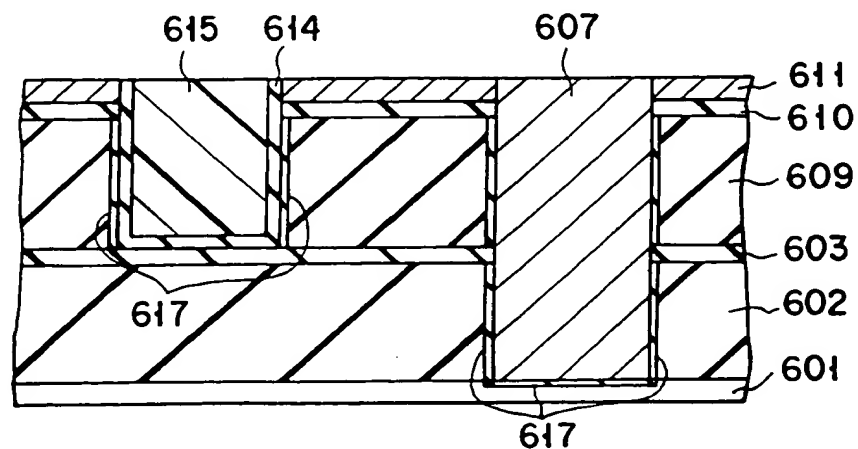




FIG. 34A

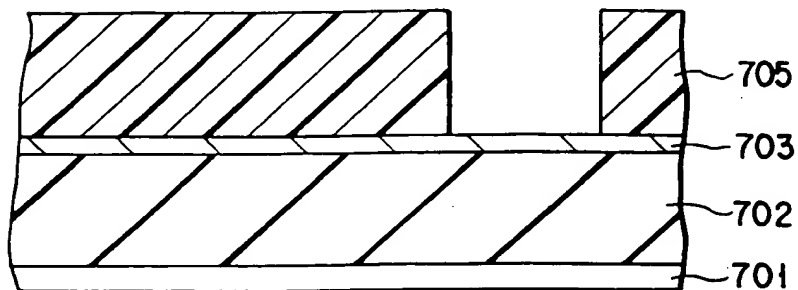


FIG. 34B

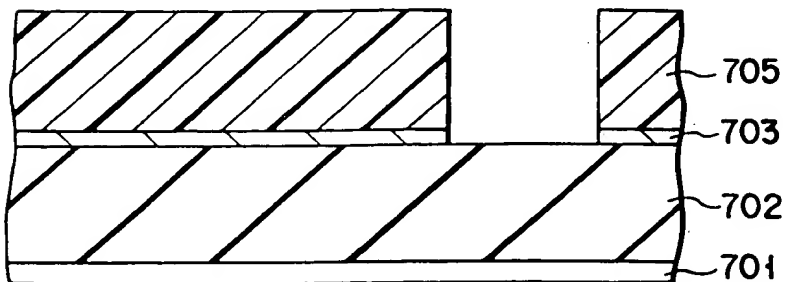


FIG. 34C

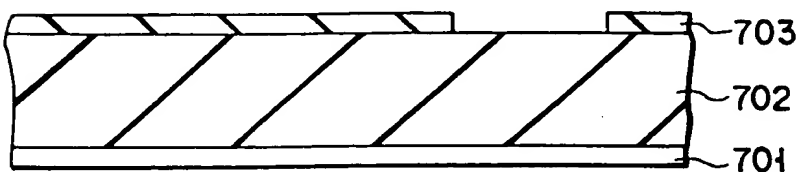
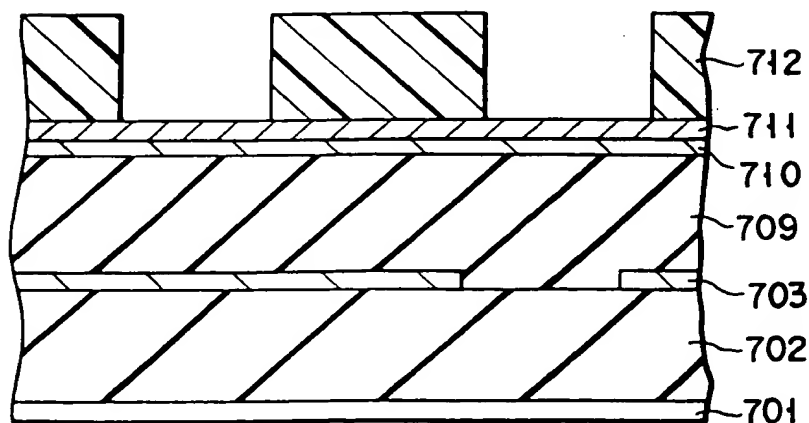
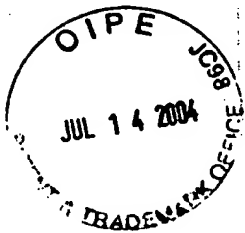


FIG. 34D





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FIG. 34E

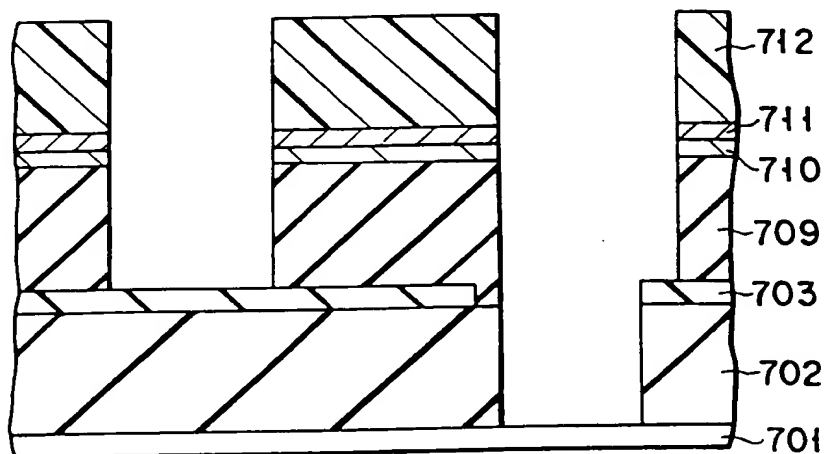
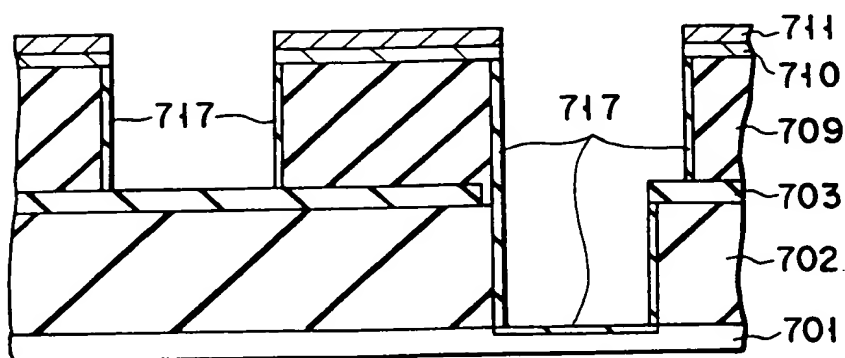


FIG. 34F



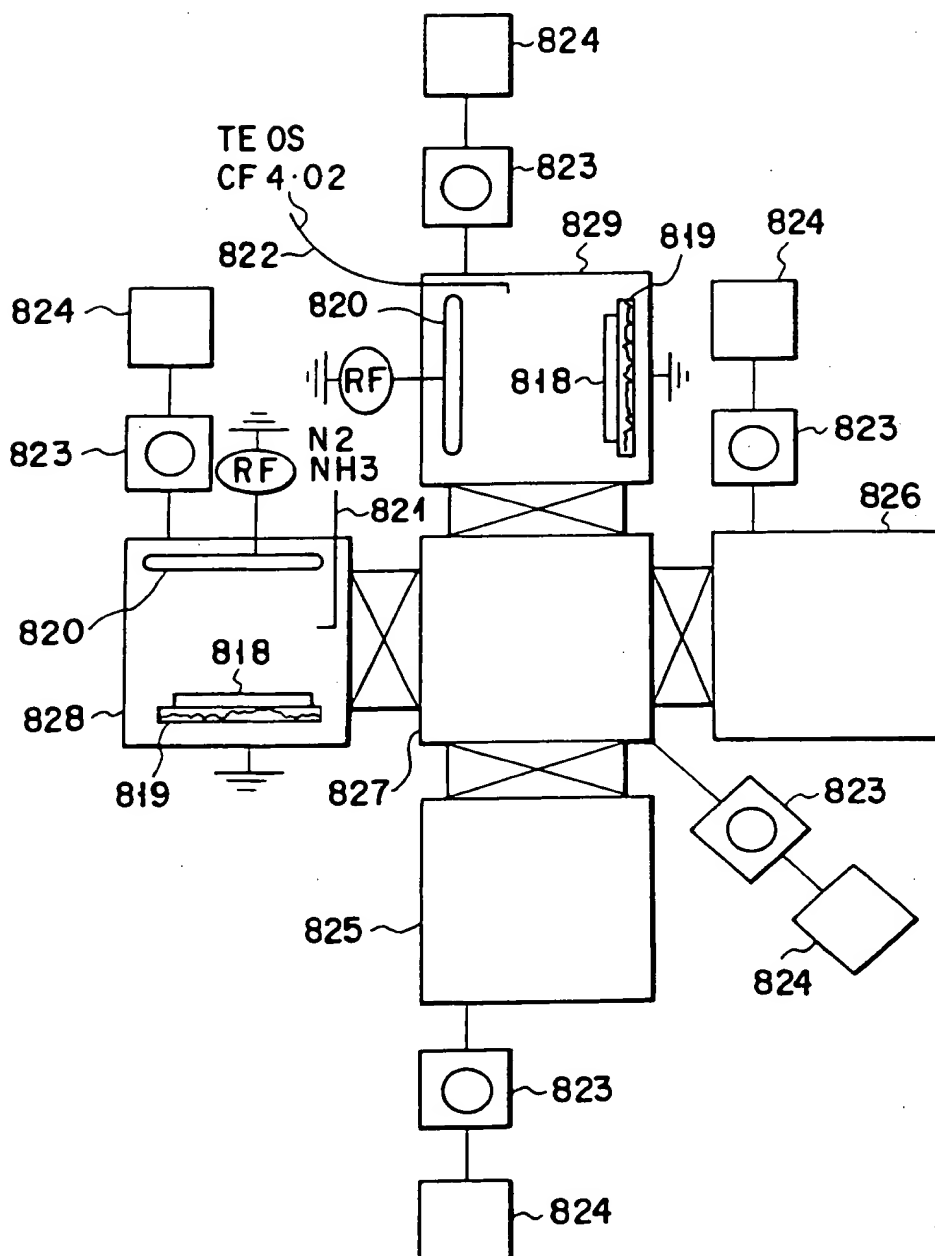


FIG. 35

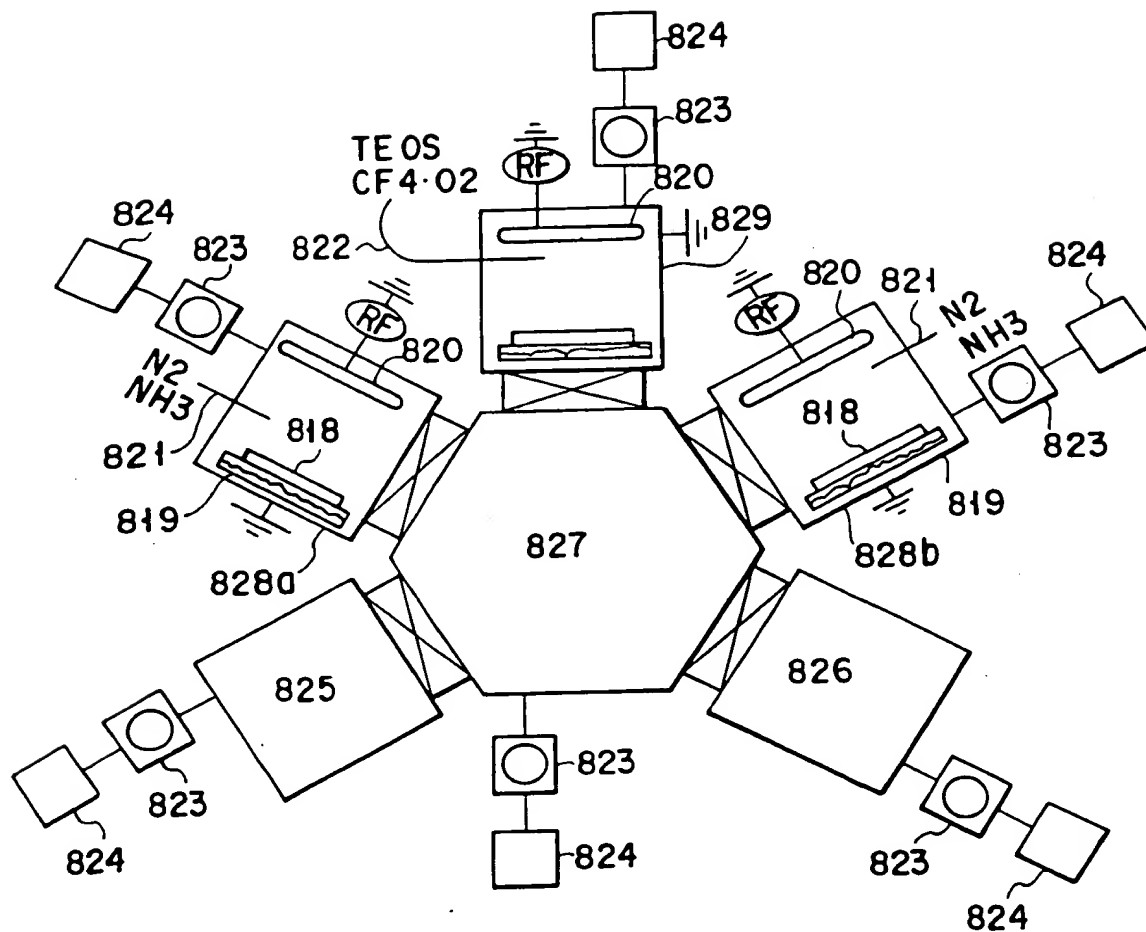


FIG. 36

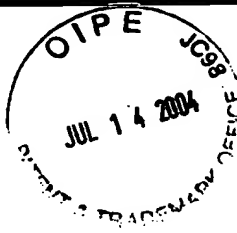


FIG. 37A

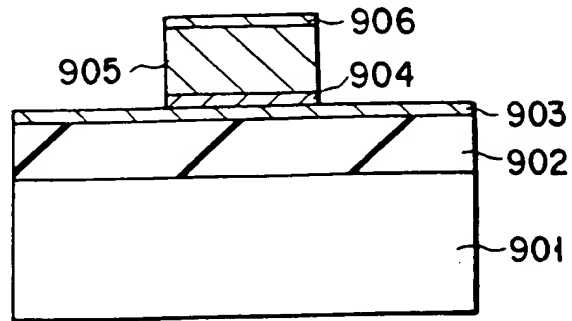


FIG. 37B

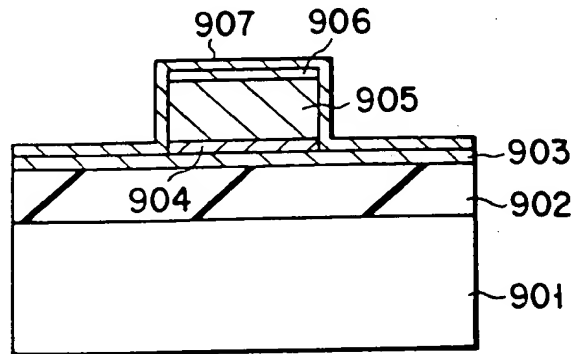


FIG. 37C

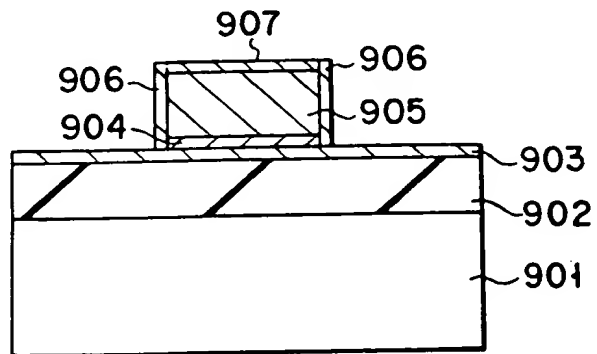
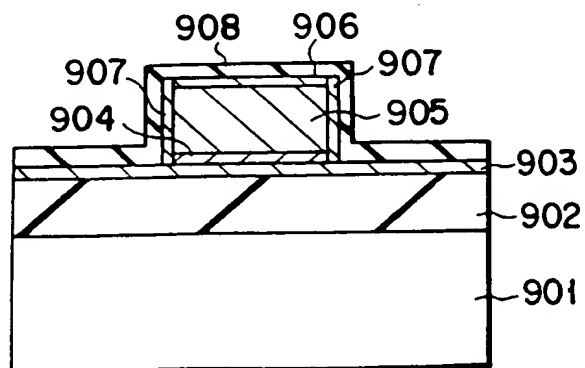


FIG. 37D



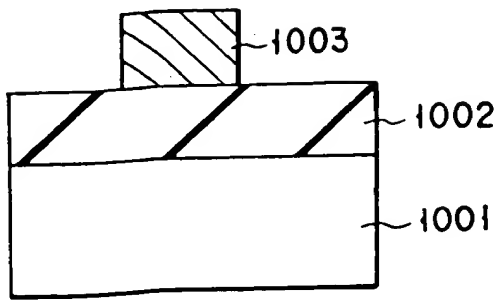


FIG. 38A

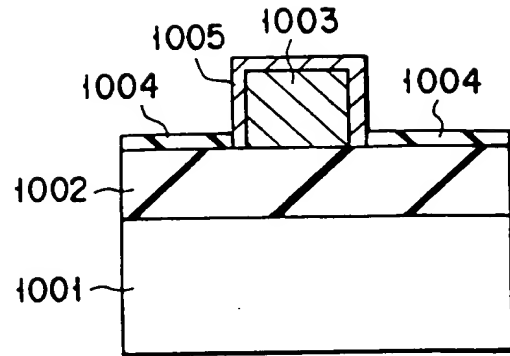


FIG. 38B

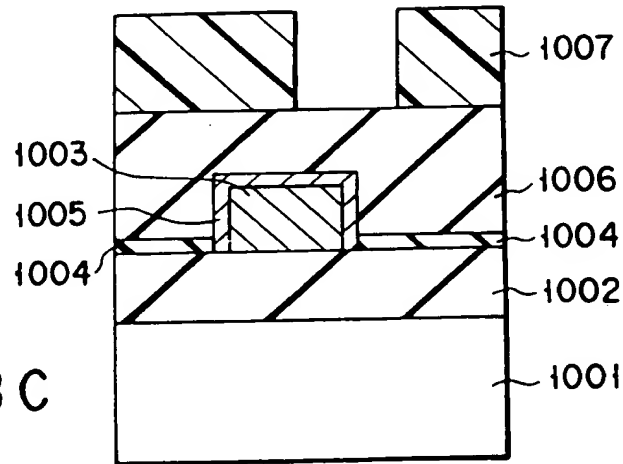


FIG. 38C

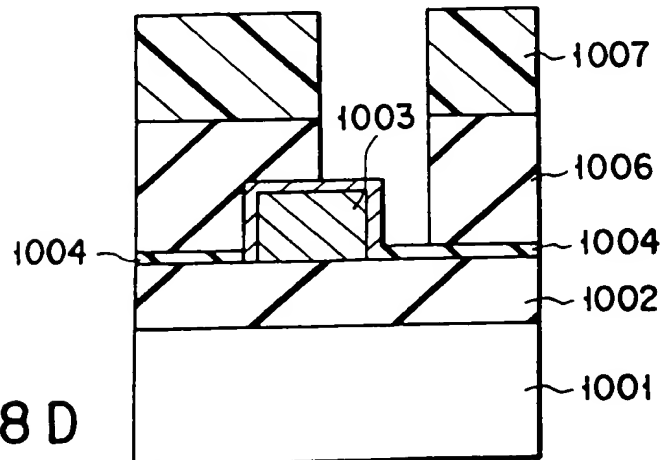


FIG. 38D